

INFORMATION BULLETIN

WEST BENGAL JOINT ENTRANCE EXAMINATION-2018 (WBJEE-2018)

Date of Examination
22.04.2018 (Sunday)

West Bengal Joint Entrance Examinations Board
AQ-13/1, Sector V, Salt Lake City
Kolkata 700091
Phone: 1800-1023-781 (Toll free)

Release date: 20th November, 2017

IMPORTANT INSTRUCTIONS FOR ON LINE APPLICATION	
Candidates are required to go through the Information Bulletin carefully before attempting for online application. Once an application is received, it will be construed that the candidate agrees to all terms & conditions, rules & regulations stipulated in the Information Bulletin and notices published by the Board for the said purpose. Any application not in compliance with the conditions specified in the Information Bulletin is liable to be rejected.	
1.	Application for WBJEE-2018 has to be done online only. There is no printed application form available.
2.	Ensure filling genuine application form available on line at www.wbjeeb.nic.in
3.	It is essential to have a mobile number and a unique email ID. All future communications will be sent through the registered mobile number and email ID. WBJEEB will not be responsible for non-receipt of any communication by the candidates if the mobile number and/or the email ID are wrong/non-existing/changed.
4.	Once the registration details i.e. name, father's name, mother's name, gender and date of birth are entered and submitted, they cannot be changed/modified/edited under normal circumstances. Also the information must match exactly with the school admit cards, mark sheets, certificates, photo identity cards, caste/category certificates etc. which a candidate has to produce at the time of entering the examination hall, during counselling, during admission and during registration with the University.
5.	Do not attempt to make any duplicate application.
6.	Do not share your application number; pass word, security question/answer with anyone.
7.	Upload scanned copy of photograph and signature as instructions provided in the Information Bulletin.
8.	If any information other than name, father's name, mother's name and date of birth given in the application needs to be corrected then do the correction within the given window period of correction. The Board will not make any correction thereafter.
9.	If any candidate receives any SMS/email regarding discrepancy in photograph/signature uploaded by him/her, he/she must take corrective action immediately within one day.
10.	The amount of application fees to be paid for appearing in the WBJEE-2018 is ₹500 (Rupees five hundred only) plus the Bank's Service Charges as applicable. The Examination Fees can be paid either in cash less mode by 'Net Banking' / 'Debit Card' / 'Credit Card' or in cash using Allahabad Bank e-challan.

	Payment status is updated automatically and hence should show 'OK' immediately after the payment. But in some rare cases it may be delayed due to the Bank's network delay/failure or transaction failure at the Electronic Payment Gateway (EPG). If the payment status does not show 'OK' immediately after making the payment then the candidates are advised as follows, a) If the payment was made by e-challan, contact the bank branch immediately, where the cash payment was made. b) If the payment was made by net banking/debit card/credit card, and the transaction failed at EPG, the candidate has to make payment once again. Do not wait for the last day to make fee payment in order to avoid payment failure by Bank or EPG.
11.	Keep copies of confirmation page, admit card in safe custody. It is not possible to generate any duplicate copy.
12.	For any query regarding the examination, contact: Controller of Examinations West Bengal Joint Entrance Examinations Board AQ-13/1, Sector -V, Salt Lake City, Kolkata-700091 Examination Helpdesk:-1800-1023-781 Email: Link <Contact Us> in www.wbjeeb.in

Section	CONTENTS	Page
1.0	Introduction:	8
2.0	The West Bengal Joint Entrance Examination-2018 (WBJEE-2018)	8
2.1	The mode of Examination	8
2.2	Subjects of Examination:	8
2.3	Syllabus of Examination:	8
2.4	Schedule of WBJEE-2018	9
2.5	Pattern of Question Papers in WBJEE-2018	9
2.6	Mode of answering in the examination	9
2.7	Scoring Methodology	10
2.8	Ranking Methodology and publication of Merit Lists	10
2.9	Tie-breaking Methodology in determination of Merit Rank:	11
2.9.1	Tie breaking Rule for GMR	11
2.9.2	Tie breaking Rule for PMR	12
2.9.3	Final Tie-breaking rule for GMR and PMR	12
2.10	Rules of the examination (WBJEE-2018)	12
3.0	Eligibility and academic qualification	12
3.1	Eligibility criteria for appearing in the WBJEE-2018	12
3.2	General Academic Qualifications for admission	12
3.2.1	For admission to Engineering courses	12
3.2.2	For admission to Pharmacy courses	13
3.2.3	Important consideration in terms of academic qualification	13
3.2.4	Important information regarding eligibility	13
3.3	Special eligibility criteria	14
3.3.1	Institute specific special eligibility criteria	14
3.3.1.1	University of Calcutta	14
3.3.1.2	Jadavpur University (Faculty of Engineering & Technology):	14
3.3.1.3	West Bengal University of Animal and Fishery Sciences	15
3.3.1.4	Neotia University	15
3.3.2	Course specific special eligibility criteria	15
3.3.2.1	The degree course in Marine Engineering	15
3.3.2.2	The Five Year degree Course in Architecture	16

3.4	Requirements in terms of Residential/Domicile Criteria	16
3.4.1	Criteria to be treated as domicile of West Bengal and applicable proforma of certificate	16
3.4.2	Competent authority to issue domicile certificate	17
4.0	Category of participating institutions and scope of admission	18
4.1	Categories of Institutions	18
4.2	State funded/State aided Universities / University Departments (U)	18
4.3	Government Engineering & Technology Colleges (G)	18
4.4	Private & Self Financing Universities (PU)	18
4.5	Private & Self Financing Engineering & Technology Colleges (P)	19
4.6	Private & Self Financing Engineering & Technology Colleges-Minority Institutions	19
5.0	Reservation of seats for students under Reserved Category	19
5.1	Reservation of Seats for SC/ST/OBC-A/OBC-B/PwD	19
5.1.1	Competent Authorities for the issuance of SC/ST Certificate	20
5.1.2	Competent Authorities for the issuance of OBC-A / OBC-B Certificate	20
5.1.3	Reservation of seats for PwD candidates	20
5.2	Reservation of Seats for admission of the wards of Defense Personnel (Defense Quota Seats)	21
5.3	Seats for admission through JEE (Main) 2018	22
6.0	Tuition Fee Waiver (TFW) Scheme	22
6.1	Availability of seats under the Tuition Fee Waiver (TFW) Scheme	22
6.2	Submission of Income Certificate in availing seat under the TFW Scheme	23
7.0	Legal jurisdiction	23
8.0	Procedure for submission of application Form , payment of Examination Fees and downloading/printing of the Confirmation Page	23
8.1	Application for WBJEE-2018	24
8.2	Filling up of Application Form	24
8.3	Uploading of images	24
8.4	Payment of Examination Fees	25
8.5	Confirmation Page	26
8.6	Correction of application form	26
9.0	Admit Card	26
10.0	Allocation of examination center	27
11.0	Evaluation and declaration of result	27

12.0	Counselling/seat allotment and admission	29
APPENDIX -1	Proforma-a1 for domicile certificate	30
APPENDIX -2	Proforma-a2 for domicile certificate	31
APPENDIX -3	Proforma-b for domicile certificate	32
APPENDIX -4	Proforma for income certificate	33
APPENDIX -5	List of Participating Institutes	34
APPENDIX -6	List of courses	55
APPENDIX -7	Syllabus	57
APPENDIX -8	Rules of the examination	65
APPENDIX -9	Examination Zones	67
APPENDIX-10	Important dates	68
APPENDIX-11	Guidelines for on line application	69
APPENDIX-12	Sample OMR	73
APPENDIX13	Sample attendance sheet	74

1.0	Introduction:
	The West Bengal Joint Entrance Examinations Board The West Bengal Joint Entrance Examinations Board (WBJEEB) was established in 1962 by Government of West Bengal in exercise of the powers conferred under article 162 of the Constitution of India in pursuant to No. 828-Edn(T), dated 02.03.1962. Subsequently, the Board was recognised as a Statutory Body vide West Bengal Act XIV of 2014 and was authorised for conducting the Joint Entrance Examination in respect to admission to various institutions in West Bengal imparting education in Medical, Engineering and Technological courses. The Board has been empowered to conduct Common Entrance Examinations for admission to Undergraduate and Postgraduate Professional and Vocational Courses both in the Undergraduate and Post graduate level. As such, it always endeavours to advocate transparency and implement effective state-of-the-art technology in conducting such examinations. WBJEEB has been instrumental in conducting the admission process through online application and allotment through e-Counselling since 2012. For the academic session of 2018-19, the Board is going to conduct the Common Entrance Examination for admission to Undergraduate Courses in Engineering & Technology, Pharmacy and Architecture Courses in Universities, Government Colleges as well as Self Financing Engineering & Technological Institutes in the State of West Bengal.
2.0	The West Bengal Joint Entrance Examination-2018 (WBJEE-2018)
2.1	The mode of Examination It is the Common Entrance Examination in offline mode (OMR based examination).
2.2	Subjects of Examination: Candidates are required to appear for two papers in WBJEEB-2018 1. Paper-I - Mathematics 2. Paper-II - Physics & Chemistry (combined). Candidates appearing in both Paper-I and Paper-II and who are awarded ranks will be eligible for admission in Engineering/ Technology/ Architecture/ Pharmacy Courses in all institutes Candidates appearing in Paper-II only and who are awarded ranks will be eligible for admission only in Pharmacy Courses (except in Jadavpur University)
2.3	Syllabus of Examination: The subject wise Syllabus for the WBJEE-2018 is

available in **APPENDIX-7**

2.4

Schedule of WBJEE-2018

Date of Examination	Paper/ Subject	Time schedule
22.04.2018 Sunday	Paper-I (Mathematics)	11:00 a.m. to 1.00 p.m.
	Paper-II (Physics & Chemistry)	2:00 p.m. to 4:00 p.m.

No further examination shall be held under any circumstances for those who will not be able to appear on the above scheduled date and time of WBJEE-2018 examination.

2.5

Pattern of Question Papers in WBJEE-2018

Questions will be based on the Syllabus for WBJEE-2018 as is given in **APPENDIX – 7**.

In every subject, all questions will be of **Multiple Choice Questions (MCQ)** type, with four options against each of the questions.

There will be three categories of questions in each of the subjects. The number of questions as well as maximum marks for each are given in the following table:

	Category-I Full Marks-1	Category-II Full Marks-2	Category-III Full Marks-2	Total Number of Questions	Total Marks
	No. of Questions	No. of Questions	No. of Questions		
Mathematics	50	15	10	75	100
Physics	30	5	5	40	50
Chemistry	30	5	5	40	50

In Category I: Only one answer option is correct;

In Category-II: Only one answer option is correct;

In Category-III: One or more answer option(s) are correct.

2.6

Mode of answering in the examination

a) Questions are to be answered on specially designed optical machine readable response **(OMR)** sheet, which will be evaluated by the method of Optical Mark Recognition. Thus it is very important to follow the correct method of marking.

b) There will be four alternative answers for each question. Candidate will indicate response to the questions by **darkening the appropriate circle completely with blue/black ball point pen.**

c) Any other kind of marking e.g. filling the bubble incompletely, filling with pencil, cross mark, tick mark, dot mark, circular mark, over

	writing, scratching, erasing, white ink, marking outside the bubble etc. may lead to wrong/partial/ambiguous reading of the response. WBJEEB will be, in no way, responsible for such eventuality. d) Response marking cannot be edited/changed/erased/modified. Hence it is advised that the candidate should be sure about the answer before marking and should not put any stray mark on which he/she does not want to attempt.
2.7	Scoring Methodology Question type: Scoring methodology Category-I : a) Only one option is correct. b) Correct response will yield 1 (one) mark. c) Incorrect response will yield -1/4 (25% negative) marks. d) For any combination of response with more than one option, the said answer will be treated as incorrect and will yield -1/4 (25% negative) marks. e) Not attempting the question will fetch zero mark. Category-II : a) Only one option is correct. b) Correct response will yield 2(two) marks. c) Incorrect response will yield -1/2 (25% negative) marks. d) For any combination of response with more than one option, the said answer will be treated as incorrect and will yield -1/2 (25% negative) marks. e) Not attempting the question will fetch zero mark. Category-III : a) One or more options may be correct. b) Only all Correct response will yield 2(two) marks. c) Any combination of correct and wrong response will be treated as incorrect and will yield 0 (zero) mark. d) For partially correct response, marks awarded will be = $2 \times (\text{no. of correct options marked} \div \text{total no. of correct options})$. e) Not attempting the question will fetch zero mark.
2.8	Ranking Methodology and publication of Merit Lists Based on the papers (subjects) appeared in the WBJEE-2018 followed by marks scored there-of, two separate Merit Rank Lists shall be published by the Board as per the following details: A. General Merit Rank: (GMR) a. This list shall be prepared based on the total score obtained in paper-I and paper-II.

	b. GMR shall be applicable for admission to all Engineering / Technology / Architecture Courses and to the Pharmacy Course in Jadavpur University. c. Ranking shall be done in the descending order of total marks scored in all the subjects. In case of ties, tie-breaking rules as given in 2.9 shall be applicable. d. Counselling and admission will be done on the basis of GMR only. e. Separate reserved category merit position will also be indicated for information for respective category of students e.g. SC Rank, ST Rank, OBC-A Rank, OBC-B Rank, PwD Rank, TFW Rank. But category ranks are prepared only for sequencing the deserving candidates within the respective category. B. Pharmacy Merit Rank: (PMR) a. This list shall be prepared based on the score in paper-II only. b. PMR shall be applicable for admission to all Pharmacy Courses except in Jadavpur University. c. Ranking shall be done in the descending order of marks scored in paper-II. In case of ties, tie-breaking rules as given in 2.9 shall be applicable. d. Counselling and admission will be done on the basis of PMR only. e. Separate reserved category merit position will also be indicated for information for respective category of students e.g. SC Rank, ST Rank, OBC-A Rank, OBC-B Rank, PwD Rank, TFW Rank. But category ranks are prepared only for sequencing the deserving candidates within the respective category C. Papers and ranks: a. Candidates appearing in both paper-I and paper-II will secure both GMR and PMR if scored above the cut off mark. b. Candidates appearing only in paper-II will have PMR only, if scored above the cut off mark. c. Candidates appearing only in paper-I will not get any rank
2.9	Tie-breaking Methodology in determination of Merit Rank:
2.9.1	Tie breaking Rule for GMR a) Less negative marks in Mathematics, Physics and Chemistry taken together b) More positive marks in Mathematics and Physics taken together c) More positive marks in Mathematics and Chemistry taken together d) Less negative marks in Mathematics and Physics taken together e) Less negative marks in Mathematics and Chemistry taken together f) More positive marks in Mathematics for only the 2 marks questions g) More positive marks in Physics for only the 2 marks questions h) More positive marks in Chemistry for only the 2 marks questions i) Less negative marks in Mathematics for only the 2 marks questions j) Less negative marks in Physics for only the 2 marks questions.

2.9.2	Tie breaking Rule for PMR a) Less negative marks in Physics & Chemistry b) More positive marks in Chemistry c) Less negative marks in Chemistry d) More positive marks in Chemistry for only the 2 marks questions e) Less negative marks in Chemistry for only the 2 marks questions f) More positive marks in Physics for only the 2 marks questions g) Less negative marks in Physics for only the 2 marks questions.
2.9.3	Final Tie-breaking rule for GMR and PMR After application of the Tie-breaking Rules as applicable if there be still ties, the same will be broken by the date of birth (DOB) of the candidates, with the older candidate having preference over the younger one.
2.10	Rules of the examination (WBJEE-2018): Rules to be followed during the examination is given in APPENDIX-8
3.0	Eligibility and academic qualification
3.1	Eligibility criteria for appearing in the WBJEE-2018 a) Citizenship: Applicant must be a citizen of India. b) Age Restriction: (i) The lower age limit is 17 (seventeen) years as on 31.12.2018. A candidate should have been born on or before 31.12.2001. There is no upper age limit in appearing in the WBJEE-2018. (ii) However, for admission to the degree level Marine Engineering Course The lower age limit is 17 (seventeen) years as on 31.12.2018 and the upper age limit is 25 Years as on 31.12.2018.
3.2	General Academic Qualifications for admission to Engineering/Pharmacy Courses
3.2.1	For admission to Engineering courses a) Candidate must have passed the Qualifying Examination i.e. the '10+2' examination with Physics and Mathematics along with any one of Chemistry / Biotechnology / Biology / Computer Science / Computer Application as compulsory subjects with individual pass marks (in both theory and practical wherever applicable) in all the three subjects as stated above in regular class mode. b) Must have obtained at least 45% marks (40% in case of candidates belonging to reserved category e.g. SC, ST, OBC-A, OBC-B, PwD) in the above three subjects taken together.

	c) Must have passed English in the '10+2' examination with at least 30% marks. d) The Board of the said Qualifying Examination must be recognized by the Central Government or State Government concerned.
3.2.2	For admission to Pharmacy courses a) Candidate must have passed '10+2' examination with Physics and Chemistry along with any one of Mathematics / Biotechnology / Biology / Computer Science / Computer Application as compulsory subjects with individual pass marks (in both theory and practical wherever applicable) in all the three subjects as stated above in regular class mode. b) Must have obtained at least 45% marks (40% in case of candidates belonging to reserved category e.g. SC, ST, OBC-A, OBC-B, PwD) in the above three subjects taken together. c) Must have passed English in the '10+2' examination with at least 30% marks. d) The Board of the said Qualifying Examination must be recognized by the Central Government or State Government concerned. e) The criteria for admission into Bachelor of Pharmacy course in Jadavpur University is given in section 3.3.1.2-a
3.2.3	Important consideration in terms of academic qualification A candidate appearing in the Qualifying Examination i.e. the '10+2' Examination in 2018 may sit in the WBJEE-2018 but shall not be eligible for allotment of seat for admission if he/she does not pass the Qualifying Examination with the required minimum eligibility criteria.
3.2.4	Important information regarding eligibility WBJEEB do neither verify the information provided by any candidate during on line application nor verify any certificate of date of birth, domicile, income, reservation category, academic qualification etc. for deciding the eligibility of the candidate. Admit cards are issued only on the basis of the information provided by the candidate. Also, normally there is no scope of changing/correcting any information after the last date of online application. All verifications are done during counselling and subsequent admission and registration with the university. If at any stage after examination it is found on scrutiny that the applicant is otherwise ineligible, his/her candidature shall be treated as cancelled even if he/she secured a Merit Rank in the WBJEE-2018 and/or a seat has been allotted to the candidate. Hence, securing a Rank in the WBJEE-2018 does not constitute a right/guarantee in favour of a candidate for his/her claim for admission if he/she fails to comply with the specified norms and standards.

3.3	Special eligibility criteria in terms of academic qualifications for admission to some specific Universities/ University Departments/ Institutions or for admission to some specific courses as per norms and standards of the regularity authorities are given in this section. For all other institutes and courses the criteria are given above in section 3.2 above.
3.3.1	Institute specific special eligibility criteria
3.3.1.1	University of Calcutta a) All available Courses except Jute & Fibre Technology Pass '10+2' or equivalent Examination from a recognised Council/ Board in regular class mode with Mathematics, Physics and Chemistry as compulsory subjects with at least 60% (55% for Reserve Category students e.g. SC, ST, OBC-A, OBC-B, PwD) marks in the above three subjects taken together, individual pass marks (both in theory & practical where ever applicable) in each of the subjects and pass marks in English with a minimum of 30% in the said qualifying examination. b) Jute & Fibre Technology The must pass '10+2' or equivalent examination from any recognised Council/ Board in regular class mode with Physics, Mathematics and Chemistry/ Biotechnology/ Biology as compulsory subjects with at least 60% (50% for Reserve Category students e.g. SC, ST, OBC-A, OBC-B, PwD) marks in the above three subjects taken together and with at least 30% marks in English.
3.3.1.2	Jadavpur University (Faculty of Engineering & Technology): a) All available courses including Bachelor of Pharmacy and five Year degree course in Architecture Pass '10+2' or equivalent Examination from a recognised Council/ Board in regular class mode with Mathematics, Physics and Chemistry as compulsory subjects with at least 60% (45% for Reserve Category Students e.g. SC, ST, OBC-A, OBC-B, PwD) marks in above three subjects taken together. Individual pass marks (both in theory & practical where ever applicable) in each of the above three subjects. Minimum 60% (45% for Reserve Category Students e.g. SC, ST, OBC-A, OBC-B, PwD) marks in Mathematics and at least pass marks in English with a minimum of 30% in the said qualifying examination. b) Additional requirement for Five Year Degree Course in Architecture Besides the same academic qualifications as stated above, candidates must qualify either in NATA (National Aptitude Test in Architecture) conducted by the COA (Council of Architecture) or in the Paper-II of JEE-

	Main, 2018 conducted by the CBSE Board.
3.3.1.3	West Bengal University of Animal and Fishery Sciences B. Tech (Dairy Technology) course a) Candidate must have passed the Qualifying Examination i.e. the '10+2' examination with Physics, Chemistry and Mathematics as compulsory subjects with individual pass marks (in both theory and practical wherever applicable) in all the three subjects as stated above in regular Class mode from any recognized Council/ Board. b) Must have obtained at least 50% marks (40% in case of candidates belonging to reserved category e.g. SC, ST, OBC-A, OBC-B) in Physics, Chemistry, Mathematics and English taken together. c) Candidates of other boards/ Councils (10+2) level passed from institutions in West Bengal will be considered provided that he/ she is a domicile in West Bengal.
3.3.1.4	Neotia University a) B. Tech courses in Computer Science & Engineering and Robotic Engineering: Pass '10+2' or equivalent Examination with Physics, Mathematics and Chemistry/ Computer Sc. as compulsory subjects with at least 60% marks in the above three subjects taken together. b) B. Tech courses in other branches: Pass '10+2' or equivalent Examination with Physics, Chemistry and Mathematics as compulsory subjects with at least 60% marks in the above three subjects taken together. c) B. Tech course in Marine Engineering: Pass '10+2' or equivalent Examination with Physics, Chemistry and Mathematics as compulsory subjects with at least 60% marks in the above three subjects taken together and at least 50% marks in English.
3.3.2	Course specific special eligibility criteria
3.3.2.1	The degree course in Marine Engineering As per the norms and standards of the Director General of Shipping, Government of India: Candidates must pass Higher Secondary (10+2) Examination of West Bengal Council of Higher Secondary Education or equivalent examination from a recognized Council/Board in regular class mode with: a) 60% marks in Physics, Chemistry and Mathematics taken together with individual pass marks (both in theory and practical where ever applicable) in each of the said subjects; b) Minimum of 50% marks in English as subject in either in '10' standard or in '10+2' standard.

	c) These requirements are applicable for the Marine Engineering Course in any of the participating Institution.
3.3.2.2	The Five Year degree Course in Architecture a) As per the norms and standards of the Council of Architecture (COA): No candidate with less than 50% marks in aggregate shall be admitted to the architecture course unless he/she has passed an examination at the end of new '10+2' scheme of Senior School Certificate Examination or equivalent with Mathematics as a subject of Examination at the 10+2 level. b) Candidate must also qualify either in the NATA (National Aptitude Test in Architecture) conducted by the Council of Architecture, New Delhi or in Paper 2 of JEE Mains conducted by Central Board of Secondary Education. c) These requirements are applicable for the five year degree course in Architecture in any of the participating Institutions except the Jadavpur University, for which the academic eligibility criteria is given in 3.3.1.2-b above.
3.4	Requirements in terms of Residential/Domicile Criteria a) There is no particular Residential/Domicile requirement to appear in the WBJEE-2018. b) However, the State (West Bengal) Residential/Domicile requirement is applicable for admission to any Government Engineering / Technology / Pharmacy Colleges of the State as well as for admission to any reserved category of seats in respect of any course in any of the enlisted University/University Department as well as in any Engineering / Technology / Pharmacy College of the State. c) The State (West Bengal) Residential/Domicile requirement is also applicable for any seat under the TFW (Tuition Fee Waiver) Scheme. d) The candidate needs to download the required proforma as per the detail given in section 3.4.1 below and keep the certificate ready to be produced during counseling, admission etc. e) If the certificate is then found to be invalid, the candidate will lose the opportunity of admission in institutes and courses given in Para a), b) and c) above.
3.4.1	Criteria to be treated as domicile of West Bengal and applicable proforma of certificate Only those candidates will be treated as domicile of West Bengal who are either, a) residing in West Bengal continuously at least for last 10 (ten) years as on 31.12.2017; OR

	b) whose parent(s) is/are permanent resident(s) of West Bengal having permanent address within the State of West Bengal. In case of a) above, a certificate is to be obtained as per forma 'a1' or proforma 'a2'. In case of b) above, a certificate is to be obtained in pro forma 'b' or the candidate has to produce in original any two of Voter ID card/ Adhaar card/ Passport/ Ration card belonging to his/her parents. The said documents would justify that the residential address of parent(s) is in West Bengal. Proforma 'a1' and 'b' are to be certified by Government Officials as detailed below and proforma 'a2' is to be certified by the Head of the Institution, wherefrom the candidate has passed or appeared 10+2 level examination. Certificates of reserved category (e.g. SC, ST, OBC-A, OBC-B, PwD) cannot be considered as domicile certificates.
3.4.2	Competent authority to issue domicile certificate A. Proforma 'a1' or 'b' must be signed and certified by any of the following competent authorities from Central Government or State Government <i>having local jurisdiction over the place of the permanent residence of the concerned candidate or his/her parents, as the case may be, viz.</i> - District Magistrate, Additional District Magistrate, Deputy Magistrate, Deputy Collector, Sub – Divisional Officer, Block Development Officer. - Superintendent of Police, Additional Superintendent of Police, Sub Divisional Police Officer, Deputy Superintendent of Police, - Commissioner, Additional Commissioner, Joint Commissioner, Deputy Commissioner, Assistant Commissioner of Police Commissionerate. - Judicial Magistrate of any rank or position in the concerned district or Metropolitan locality or Hon'ble High Court at Calcutta or Hon'ble Supreme Court of India. - Corporation Area - Commissioner, Additional Commissioner, Joint Commissioner, Assistant Commissioner. - Assistant Secretary or above in the Secretariat to the Government of West Bengal (including GTA) or Central Government. - Deputy Director or above in the Directorate to the Government of West Bengal or Central Government. B. Every official certifying the Domicile Status of the candidate or his/her parents MUST provide his/her FULL NAME, DESIGNATION, PLACE OF POSTING WITH ADDRESS, LANDLINE/ MOBILE NUMBER. He/she should also provide his/her IDENTITY CARD NUMBER if available. C. CERTIFICATION FROM ANY AUTHORITY OTHER THAN THOSE THAT HAVE BEEN ENUMERATED ABOVE <u>'WILL NOT BE ACCEPTED.'</u> D. Note: Domicile certificates issued by any elected people's representative such as municipal commissioner, Councillor of

	<i>Municipal Corporation/ Municipality, Member of three-tier Panchayat system or GTA, MLA or MP are not acceptable for WBJEE-2018.</i> E. Proforma 'a2' must be signed and certified by the Head of the Institution from which the candidate has passed or will appear in 10+2 examination. Such certificate must be issued after verification of the school education record of the candidate.
4.0	Category of participating institutions and scope of admission
4.1	There are four (4) Categories of Institutions participating (PI) in the admission system through the WBJEE-2018. Their list and the list of available courses (branches) for admission as of 2017 are given as reference in APPENDIX-5. Revised list for 2018 will be published before counselling. The quantum of seats available in such institutes for admission through the WBJEE-2018 and corresponding Tuition Fee-Structure are given below:
4.2	State funded/State aided Universities / University Departments (U) a) 100% seats in respect of all available courses shall be admitted through the WBJEE-2018. b) The fees for study in such Institutions shall be guided by relevant Fee-Structure of respective Universities.
4.3	Government Engineering & Technology Colleges (G) a) 100% seats in respect of all available courses shall be admitted through the WBJEE-2018. b) The fees for study in such Institutions shall be guided by relevant Fee-Structure as may be defined by the Department of H. E., Govt. of W. B.
4.4	Private & Self Financing Universities (PU) • List of private Universities offering Degree Level Engineering/ Technology/ Pharmacy/ Architecture Courses run on self financing basis along with the list of courses offered is given in APPENDIX-5. • Number of seats available for admission in such courses through WBJEE-2018 will be given in the Seat Matrix to be published before counselling and admission. Separate Fee-Structures are available for study in such Private & Self Financing Universities as may be defined by the respective Universities or by the State Government in the Higher Education Department through relevant Government Orders.

4.5	Private & Self Financing Engineering & Technology Colleges (P) 90% of the Seats shall be available for admission through the WBJEE-2018 and remaining 10% seats shall be available for admission through the All India Engineering Entrance Examination-2018 i.e. the JEE-Main-2018. Separate Fee-Structures are available for study in such Private & Self Financing Institutions as may be defined by the Department of H. E., Govt. of W. B.															
4.6	Private & Self Financing Engineering & Technology Colleges-Minority Institutions 50% of approved seats shall be open to all categories of candidates and is available for admission through the WBJEE-2018.															
5.0	Reservation of seats for students under Reserved Category															
5.1	Reservation of Seats for SC/ST/OBC-A/OBC-B/PwD (earlier Physically Handicapped) category of students Depending on the category of participating institutions, reservation of seats for such category of students shall be available following the guidelines as provided below: <table><tr><td></td><td>Nature of Institutions</td><td>Applicability of Reservation Rules</td></tr><tr><td>1</td><td>State University/University Departments</td><td>Reservation rules of concerned University</td></tr><tr><td>2</td><td>Government Engineering/ Technology / Pharmacy Colleges</td><td>Reservation rules of the State Government</td></tr><tr><td>3</td><td>Private & Self Financing Engineering / Technology / Pharmacy Colleges</td><td>As per the decision of the concerned Institution</td></tr><tr><td>4</td><td>Private & self Financing Universities</td><td>As per the concerned University Act/Rules</td></tr></table> a) However, availability of such reserve category seats shall be restricted to students domiciled in West Bengal only. b) Candidates claiming such seats must submit relevant Certificate issued from either of the competent Authorities as enlisted below. f) The certificate is to be produced during counselling, admission etc. If the certificate is then found to be invalid, the candidate will lose the opportunity of admission in reserve category. The system will automatically put him in general category and the facility will be		Nature of Institutions	Applicability of Reservation Rules	1	State University/University Departments	Reservation rules of concerned University	2	Government Engineering/ Technology / Pharmacy Colleges	Reservation rules of the State Government	3	Private & Self Financing Engineering / Technology / Pharmacy Colleges	As per the decision of the concerned Institution	4	Private & self Financing Universities	As per the concerned University Act/Rules
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3	Private & Self Financing Engineering / Technology / Pharmacy Colleges	As per the decision of the concerned Institution														
4	Private & self Financing Universities	As per the concerned University Act/Rules														

	available from 2 nd round of counseling onward.
5.1.1	Competent Authorities for the issuance of SC/ST Certificate for candidates claiming under such reserve category of seats SC/ST Certificates are to be issued by any of the following authorities: Within the respective local jurisdictions: A. In case the candidate ordinarily resides within such jurisdictions. (i) Deputy Collector of Land Revenue, Kolkata (ii) Collector of Stamp Revenue, Kolkata (iii) Metropolitan Magistrate, Kolkata (iv) Additional Chief Metropolitan Magistrate, Kolkata (v) Chief Metropolitan Magistrate, Kolkata (vi) 1st Class Stipendiary Magistrate (vii) Executive Magistrate (viii) Sub-divisional Magistrate (ix) Sub-divisional Officer (x) Deputy Collector (xi) Additional District Magistrate (xii) Collector and (xiii) District Magistrate. B. In case the candidate ordinarily resides in any part of West Bengal. (i) Deputy Director, Backward Classes Welfare Directorate, West Bengal. (ii) Commissioner, Backward Classes Welfare Department, Govt. of West Bengal.
5.1.2	Competent Authorities for the issuance of OBC-A / OBC-B Certificate for candidates claiming under such reserve category of seats: As per Notification vide No. 374(71)-TW/EC/MR-103/94 dated 27/7/1994, read with Memorandum No. 1204-SBCW/MR-67/10 dated 27/7/2015 issued by Backward Classes Welfare Department, Govt. of W.B., the Sub Divisional Officer of a Sub- Division in a District is the certificate issuing authority. In Kolkata such certificate is issued by such an officer as the State Government by modification authorizes. Accordingly, the District Welfare Officer, Kolkata and Ex-officio Joint Director, BCW has been notified to act as the certificate issuing authority in respect of Kolkata covering the jurisdiction of the Kolkata Municipal Corporation.
5.1.3	Reservation of seats for PwD (Persons with Disabilities)/ PC (Physically Challenged)/ PH (Physically Handicapped) candidates Reservation will be available for candidates with 40% to 70% disabilities of following types subject to the condition that the candidate is capable of carrying out all activities related to theory and practical work as applicable to B.E/B. Tech/B. Arch/B. Pharm courses without any special concession

and exemption.

- A. Locomotor disability
- B. Visual Impairment
- C. Hearing impairment
- D. Speech and language disability

PwD certificates are to be issued by the any of the following authorities

Officer-in-Charge/ Head of Department/ Head of the institute of Sub-Divisional Hospitals, District Hospitals, Govt. Medical Colleges run by the Govt. of West Bengal.

5.2

Reservation of Seats for admission of the wards of Defense Personnel (Defense Quota Seats)

As per the Govt. Order vide No. 406(T), Dated, 09.06.2016 of the Higher Education Department, Govt. of West Bengal 13(thirteen) seats are available for admission of the wards of Defense Personnel through the WBJEE-2018.

Those seats are supernumerary in nature and separate allotment is done by the West Bengal Joint Entrance Examinations Board as per the following guidelines:

- A. For consideration under Defense Quota, intending candidates registered for the WBJEE-2018 will **have to apply** to the Rajya Sainik Board, Home Department, Government of West Bengal, Writers' Buildings, Kolkata - 700001 through the concerned Zila Sainik Board, W.B. (for ex-servicemen) and Units (for serving soldiers) in the prescribed form with an attested copy of WBJEE - 2018 Admit Card.
- B. Based on the recommendation of the said Rajya Sainik Board, a separate list shall be published by the WBJEEB for subsequent offline counselling and allotment of seats inter-se merit basis. Appearance in both Paper-I and Paper-II in the WBJEE-2018 is mandatory for such category of seat.
- C. **Allotment of seats under Defense Quota is not done through e-counseling.**
- D. Institution-wise and course-wise availability of such seats under Defense Quota for 2017 is given below. List for 2018 shall be published before counseling.

Sl. No.	Name of the Institution	Name of the available course(s)	No. of seats
1.	Jadavpur University	As decided by the University Authority	2
2.	Jalpaiguri Govt. Engg. College	1. Mechanical Engg. 2. Information Tech.	1 1
3.	Kalyani Govt. Engg. College	Electrical	1

	<table><tr><td></td><td></td><td>Engineering</td><td></td></tr><tr><td>4.</td><td>Purulia Govt. Engg. College</td><td>1. Comp. Sc. & Engg. 2. Electronics & Comm. Enggg.</td><td>1 1</td></tr><tr><td>5.</td><td>Coochbehar Govt. Engg. College</td><td>1. Comp. Sc. & Engg. 2. Electronics & Comm. Engg.</td><td>1 1</td></tr><tr><td>6.</td><td>Govt. College of Engg & Leather Tech., Kolkata</td><td>Leather Technology</td><td>1</td></tr><tr><td>7.</td><td>Govt. College of Engineering & Ceramic Tech., Kolkata</td><td>Information Tech.</td><td>1</td></tr><tr><td>8.</td><td>Govt. College of Engineering & Textile Tech., Serampur</td><td>Information Tech.</td><td>1</td></tr><tr><td>9.</td><td>Govt. College of Engineering & Textile Tech., Berhampur</td><td>Comp. Sc. & Engg.</td><td>1</td></tr></table>			Engineering		4.	Purulia Govt. Engg. College	1. Comp. Sc. & Engg. 2. Electronics & Comm. Enggg.	1 1	5.	Coochbehar Govt. Engg. College	1. Comp. Sc. & Engg. 2. Electronics & Comm. Engg.	1 1	6.	Govt. College of Engg & Leather Tech., Kolkata	Leather Technology	1	7.	Govt. College of Engineering & Ceramic Tech., Kolkata	Information Tech.	1	8.	Govt. College of Engineering & Textile Tech., Serampur	Information Tech.	1	9.	Govt. College of Engineering & Textile Tech., Berhampur	Comp. Sc. & Engg.	1
		Engineering																											
4.	Purulia Govt. Engg. College	1. Comp. Sc. & Engg. 2. Electronics & Comm. Enggg.	1 1																										
5.	Coochbehar Govt. Engg. College	1. Comp. Sc. & Engg. 2. Electronics & Comm. Engg.	1 1																										
6.	Govt. College of Engg & Leather Tech., Kolkata	Leather Technology	1																										
7.	Govt. College of Engineering & Ceramic Tech., Kolkata	Information Tech.	1																										
8.	Govt. College of Engineering & Textile Tech., Serampur	Information Tech.	1																										
9.	Govt. College of Engineering & Textile Tech., Berhampur	Comp. Sc. & Engg.	1																										
5.3	Seats for admission through JEE (Main) 2018 Seats are available for students merit listed in JEE (Main) 2018 up to the extent of 10% of the approved seats in all Self Financed Engineering & Technology Colleges of West Bengal. Allotment of seats shall be strictly on the basis of merit and preference of students through the e-counselling process conducted by the WBJEEB. The eligibility and other criteria described in section 3 for admission to degree level Engineering / Technology /Pharmacy / Architecture courses, will be applicable for JEE (Main) 2018 merit listed candidates also.																												
6.0	Tuition Fee Waiver (TFW) Scheme																												
6.1	Availability of seats under the Tuition Fee Waiver (TFW) Scheme a) The Tuition Fee Waiver Scheme (TFW) has been implemented by the Government of West Bengal for meritorious and economically backward students domiciled in West Bengal for admission to all the participating universities/university departments / government colleges as well as private and self financing colleges offering Engineering / Technology /Pharmacy/ Architecture Courses. However, for Universities/University Departments, quantum of availability of such seats is under the discretion of the University Authorities. b) For all the government as well as private & self financing Engineering /Technology /Pharmacy colleges, a maximum of 5% of sanctioned intake per course is available on supernumerary basis (over and																												

	above the sanctioned seats) for admission under TFW scheme. c) Selection of candidates for the TFW scheme shall be decided on the basis of merit and preference of eligible students in WBJEE-2018. d) The student must be domiciled in West Bengal and the domicile certificate has produced during counseling and admission. e) Total annual Family Income of the student from all sources must be less than Rs. 2.50 lakhs (Rupees two lakhs and fifty thousand only). f) The waiver is limited to the Tuition Fee only. All other fees will have to be paid by the beneficiary.
6.2	Submission of Income Certificate in availing seat under the TFW Scheme a) Candidates must produce the Income Certificate as per the proforma provided in APPENDIX-4 of this Information Bulletin. b) The certificate is to be produced during counseling, admission etc. If the certificate is then found to be invalid, the candidate will lose the opportunity of admission in TFW category. The system will automatically put him in general category and the facility will be available from 2nd round of counseling onward. c) Candidates claiming such seats must submit relevant Certificate issued by the competent authorities as enlisted below. - An officer in the rank of Assistant Secretary or above in State or Central Govt. - District Magistrate - Additional District Magistrate - Sub-Divisional Officer - Block Development Officer Note: Income certificate issued by any elected people's representative such as municipal commissioner, councillor of Municipal Corporation/Municipality, member of three-tier Panchayat system or GTA, MLA or MP are not acceptable for WBJEE-2018
7.0	Legal jurisdiction a) All matters pertaining to conduct of WBJEE-2018 shall fall within the jurisdiction of Kolkata only. b) The Board will not be a party pertaining to any dispute arising in the process of admission to any course of study through WBJEE-2018.
8.0	Procedure for submission of application Form , payment of Examination Fees and downloading/printing of the Confirmation

	Page
8.1	Application for WBJEE-2018 has to be made ONLINE only through the web-portal http://wbjeeb.nic.in . Candidates need to have a working mobile number and an email ID. All future communications by the Board will be sent to this mobile number and an email ID only. The application procedure is interactive in nature. Detail guideline is given in APPENDIX-11. The steps are briefly described below.
8.2	Filling up of Application Form The candidate will first enter the registration details i.e. Name, Father's Name, Mother's name and Date of birth. Be careful while entering the registration details. It cannot be changed/edited/modified under normal circumstances. Also the information must match exactly with the school admit cards, mark sheets, certificates, photo identity cards, caste/category certificates etc. which you have to produce to enter the examination hall, during counselling, during admission and during registration with the University. - Any attempt by a candidate to make duplicate registration will be stopped by the system. - Thereafter candidates will fill up various personal information regarding, Nationality, Religion, Income category, Address, Choice of examination zones, academic detail etc. - At the end, the candidate has to choose password and security question/answer. - At this stage the candidate can review the entire application and make changes as necessary. - The candidate will then be asked to submit the application. - Then an application number will be generated and SMS/email will be sent to the candidate. - Candidates have to remember their password and security question/answer. If the candidate forgets the password, he/she has to recover it through "Forgot Password" option. There is no other way to recover the password even by the Board if it is lost. - It is not possible for any person/agency to change/edit/input any information without knowing the password. Hence candidates must not share their password with anybody. The Board will not be responsible for any change resulting from sharing/ divulging of the password. - At this stage candidates may logout or continue to next step.
8.3	Uploading of images At this stage the candidate is required to upload scanned images of his/her recent colour photograph and signature all in one go. Essential features of the photograph

- a) The Photograph must be recently taken so that it matches with the candidate's physical features.
- b) Low quality images are not acceptable and are likely to be rejected.
- c) Background of the photograph must be of very light colour.
- d) The face of the candidate should occupy at least 50% of the entire space for photograph looking straight to the camera.
- e) Spectacles of dark or tinted glasses are not acceptable.
- f) **Copy of same photograph need to be produced for entering the examination centre, during counseling, admission, registration with the university etc.**

In case the images do not conform to the specified requirement, **it will not be possible to issue the admit card.** In which case, only the candidate will remain responsible. WBJEEB does not check the images. However, if any discrepancy comes to its notice, a SMS will be sent to the candidate's registered mobile number. The candidate then has to log in and upload corrected image. It's not possible to make any such correction by anybody other than the candidate. Hence the Board will not entertain any request to make such corrections on behalf of the candidate.

Format, storage size and physical dimension of the images must be as under:

Image	Format	Storage size	Dimension
Photograph	JPG/JPEG	3 kB to 100 kB.	4 cm x 3 cm
Signature	JPG/JPEG	3 kB to 30 kB.	4 cm x 1.5 cm

There could be many methods to prepare an image matching the above specification. One easy method is described here.

1. Take a photograph of 3 cm x 4 cm size
2. Scan it at 300 dpi
3. Crop the scanned output page to the size of the photograph
4. Resize the image to "Email small"
5. Save

8.4

Payment of Examination Fees

After up-loading of images candidates will be directed automatically to the fee-payment step.

- a) The Examination Fees can be paid either in **cash less mode** by Net Banking/ Debit Card/ Credit Card or **in cash** using Allahabad Bank e-challan, which will be automatically generated for downloading once the same option is selected. The candidate has to take a print of the challan and deposit the fees in cash in any branch of Allahabad Bank with Core Banking Services (CBS).
- b) There is no other method of paying the application fee besides the above.

	c) The amount of Examination Fees The amount of fees to be paid for appearing in the WBJEE-2018 is ₹500 (Rupees five hundred only) plus the Bank's Service Charges as applicable as per the mode of payment selected. d) The fee once paid is not refundable under any circumstances.
8.5	Confirmation Page On successful completion of all the above steps, candidate shall automatically be directed to the option for downloading the 'Confirmation Page' which means that the application is complete. APPLICATION IS NOT COMPLETE UNTIL THE CONFIRMATION PAGE IS GENERATED. The confirmation page contains information as given by the candidate. As such, the Board is in no way responsible for any mistake in it. Also the same information will be repeated in the admit card and the rank card. Candidate should take a Print-out of the Confirmation Page and should preserve the same carefully till the completion of admission process. The confirmation page cannot be regenerated after completion of the declared e-counselling and admission process conducted by the Board. Hence it is the responsibility of the candidate to preserve it safely. a) If any candidate loses his/her confirmation page, a duplicate can be provided by the Board, but only till 31/07/2018. In order to get a duplicate confirmation page, the candidate has to apply to the Board and pay a processing fee of Rs. 500/- by a bank draft in the name of "West Bengal Joint Entrance Examinations Board" payable in Kolkata.
8.6	Correction of application form a) It is not possible to correct any primary registration data i.e. Name, Father's Name, Mother's name, gender and Date of birth of any candidate. b) If any candidate intends to correct any other information in his/her application, he/she can do so during the given correction window period using the edit mode. The Board cannot entertain any request for any correction under any circumstances beyond the correction window period. c) Also the Board will not make any correction on behalf of any candidate. d) Confirmation page, admit card, rank card etc. will be issued with the personal detail as is given by the candidate. In case of any problem to the candidate during admission or thereafter due to any mistake committed by him/her, the Board is not in a position to render any help e.g. issuing any letter of correction. The candidate has to take corrective actions at his/her end with the institute, where he/she takes admission.
9.0	Admit Card a) Admit cards will be generated on the notified date for the student to

	download and take a print. Candidate has to carry a printed hard copy of the admit card to the examination centre. b) Candidates must ensure that the admit card is not mutilated/ distorted/ soiled even by accident. Candidates with such mutilated/ distorted/ soiled admit cards will not be allowed to appear in the examination. c) Candidates can generate duplicate admit cards only till the date of examination. Hence, candidates are advised to retain their admit cards carefully in secured place to avoid any damage to the document. d) If a candidate need a duplicate admit card after the examination, the same can be provided by the Board, but only till 31/07/2018. In order to get a duplicate admit card, the candidate has to apply to the Board and pay a processing fee of Rs. 500/- by a bank draft in the name of “West Bengal Joint Entrance Examinations Board” payable in Kolkata. e) WBJEEB does not verify the information provided by the candidate during on-line application. Admit cards are issued only on the basis of the information provided by the candidate. All applicants, who appear to be prima facie eligible, will be issued admit cards and will be provisionally permitted to sit for WBJEE-2018. f) All verifications are to be done during counseling, admission, registration with the university etc. If at any stage after examination it is found on scrutiny that the applicant is otherwise ineligible, his/her candidature shall be treated as cancelled even if he/she had appeared in and secured a Merit Rank. Hence, appearing in the examination and securing a rank does not constitute a right/guarantee in favour of a candidate for his/her claim for admission.
10.0	Allocation of examination center Allocation of examination centre will be based on the choices given by the candidate during online form fill-up. However, discretion of the Board in allocation of examination centre shall be final. No request for change of allocated centre will be entertained under normal circumstances. List of district-wise examination zones is given in APPENDIX-9. a) Candidates from West Bengal, Assam and Tripura must select any three zones in order of preference. b) Candidates from other states must select any three zones from Kolkata/ Howrah/ North 24 Parganas/South 24 Parganas in order of preference. Any examination zone may be dropped if adequate numbers of candidates are not available or under any unavoidable circumstance. In such case the candidate will be allocated alternative examination zone.
11.0	Evaluation and declaration of result a) The Model Answer Keys will be published in www.wbjeeb.nic.in shortly after the examination. For this purpose, candidates are advised to regularly follow the web site after the examination.

- b) Any candidate can challenge any model answer key by logging in with his/her password.
- c) Challenges of the model answer keys will be accepted on line through the link to be given for the purpose in www.wbjeeb.nic.in on payment of **₹500 per question** plus the bank's service charges. The amount is payable by net banking/debit card/ credit card/ e-challan. The fee once paid is **non-refundable**.
- d) The Board will review the challenges and publish Final and Frozen Answer Keys. The Board's decision in this regard will be final and no further communication will be entertained.
- e) Images of OMRs and machine read responses will be uploaded in www.wbjeeb.nic.in two to three weeks (tentatively) after the examination.
- f) Any candidate can view the images of his/her OMRs and machine read responses by logging in with his/her password.
- g) The candidates, who are not satisfied with the captured responses can challenge on line through the link to be given for the purpose in www.wbjeeb.nic.in on payment of **₹500 per question** plus bank's service charges. The amount is payable by net banking/debit card/ credit card/ e-challan. The fee once paid is **non-refundable**.
- h) The Board will review the challenges and take final decision. The Board's decision on the challenges will be final and no further communication will be entertained.
- i) Challenges by letter, fax, telephone etc. other than through online mode will not be accepted or entertained.
- j) Candidates may download and preserve images of their OMRs, their machine read responses and answer keys. Such documents will not be available online after publication of result. If any candidate fails to download his/her documents in time and requires any of them after publication of result, he/she will have to pay Rs. 500/- by demand draft in the name of 'West Bengal Joint Entrance Examinations Board' payable at Kolkata for each document. The document will be sent to the candidate to his/her registered email ID.
- k) A candidate can calculate his/her score from his/her machine read response and answer keys published. However if any candidate needs a calculation sheet from the Board, he/she will have to pay Rs. 500/- by demand draft for each paper. The calculation sheet will be sent to the candidate to his/her email ID.
- l) Final result will be published in the form of Rank Card, which will contain all relevant ranks, total score and component scores in paper-I (Mathematics) and paper-II (physics & Chemistry).
- m) Candidates can view and download their rank card by logging in with their password.

	g) Duplicate rank cards cannot be generated at any later stage after completion of e-counselling and admission conducted by the Board. Hence candidates are advised to retain their rank cards carefully in a secured place for all future purpose. h) If a candidate need a duplicate rank card even after completion of e-counselling and admission conducted by the Board, the same can be provided, but only till 31/07/2018. In order to get a duplicate rank card, the candidate has to apply to the Board and pay a processing fee of Rs. 500/- by a bank draft in the name of “West Bengal Joint Entrance Examinations Board” payable in Kolkata n) Ranks cards with scores will be issued to all candidates, who appeared in WBJEE-2018. But all may not be awarded a rank and hence may not be eligible for e-counseling, for which a cut off rank and/or a cut off score will be decided by the board.
12.0	Counselling/seat allotment and admission a) A separate notification with details of e-counseling/seat allotment and admission will be published in www.wbjeeb.in and www.wbjeeb.nic.in shortly after publication of result. Only those, eligible for e-counseling, will be able to participate in it. b) Course-wise and institute wise availability of seats as provided by the competent authorities will also be published before counseling and allotment. c) Credentials of all candidates participating in e-counseling will be verified at Reporting Centers on stipulated dates.

APPENDIX -1

PROFORMA a1**Residential/Domicile Certificate for candidates residing in the State of West Bengal
continuously for at least last ten (10) years as on 31.12.2017**

Certified that _____

Son / daughter of _____ is a resident/permanent
resident of West Bengal at Village/House No. _____

Street _____

Post Office _____ Police Station _____

In the District of _____ under _____

Assembly Constituency and has been living in the State of West Bengal continuously /
uninterruptedly at least for the last ten (10) years as on 31-12-2017.

Paste 4 cmx3 cm
size recent colour
photograph in this
box

Candidate's signature

**Candidate must sign here in front of the certifying
authority**

(Candidate's photograph)

Signature of Certifying Authority _____

Designation with Official Seal _____

Full Name of Certifying Authority _____

Office Address _____

Office Phone No. _____ Mobile No: _____ (optional)

ID No: _____ (optional)

Note: Photograph is to be attested by the certifying authority.

The Certifying Authority should preserve a duplicate copy of this Certificate.

APPENDIX -2

PROFORMA a2**Residential/Domicile Certificate for candidates residing in the State of West Bengal continuously for at least last ten (10) years as on 31.12.2017**

Certified that _____ son / daughter of _____ has passed the '10+2' Examination in the year _____ / will appear in the Final '10+2' Examination in 2018 from this Institution.

It is also certified that the student is a resident/permanent resident of West Bengal at Village/House No. _____

Street _____ Post Office _____

Police Station _____ in the District of _____

under _____ Assembly Constituency and has been living and studying in the State of West Bengal continuously / uninterruptedly at least for the last ten (10) years as on 30-12-2017.

Paste 4 cmx3 cm
size recent colour
photograph in this
box

Candidate's signature

Candidate must sign here in front of the certifying authority

(Candidate's photograph)

Signature of Certifying Authority _____

Designation with Official Seal _____

Full Name of Certifying Authority _____

Office Address _____

Office Phone No. _____ Mobile No: _____ (optional)

ID No: _____ (optional)

Note: Photograph is to be attested by the certifying authority.

The Certifying Authority should preserve a duplicate copy of this Certificate.

APPENDIX -3

PROFORMA b

Residential/Domicile Certificate for candidates not residing in the State of West Bengal but whose parent(s) is (are) permanent resident(s) of West Bengal having their permanent home address within West Bengal

Certified that _____

Father/ mother of _____ (the applicant) is/ are permanent Resident of West Bengal at Village/House No. _____

Street _____

Post Office _____ Police Station _____

In the District of _____

Under _____ Assembly Constituency

Paste 4 cmx3 cm
size recent colour
photograph of the
candidate in this
box

Paste 4 cmx3 cm
size recent colour
photograph of
father/ mother of
the candidate in
this box

Father's/ Mother's Signature

Candidate's Signature

**Candidate must sign here in front of
the certifying authority**

(Candidate's Photograph) (Father's/ Mother's Photograph)

Signature of Certifying Authority _____

Designation with Official Seal _____

Full Name of Certifying Authority _____

Office Address _____

Office Phone No. _____ Mobile No: _____ (optional)

ID No: _____ (optional)

Note: Photographs are to be attested by the certifying authority.

The Certifying Authority should preserve a duplicate copy of this Certificate.

APPENDIX – 4

Proforma for Income Certificate

Certified that the TOTAL ANNUAL FAMILY INCOME FROM ALL SOURCES of _____ son/daughter of _____ residing at _____ Post Office _____ Police Station _____ in the district of _____ in the state of West Bengal for the year 2017-2018 is less than Rs. 2.50 lakhs (Rupees two lakhs and fifty thousand only) and stands at Rs. _____ (Rupees _____).

Paste 4 cmx3 cm
size recent colour
photograph of the
candidate in this
box

Candidate's signature

Candidate must sign here in front of the certifying authority

(Candidate's Photograph)

Signature of Certifying Authority _____

Designation with Official Seal _____

Full Name of Certifying Authority _____

Office Address _____

Office Phone No. _____ Mobile No: _____ (optional)

ID No: _____ (optional)

*Note: Photographs are to be attested by the certifying authority.
The Certifying Authority should preserve a duplicate copy of this Certificate.*

APPENDIX: 5

List of Participating Institutes, branches and availability of seats through e-counselling in 2017.

Revised list of 2018 will be published during counselling for 2018

Institute		Branch			Seats
Code	Name	Code	Short	Name	
P001	ABACUS INSTITUTE OF ENGINEERING & MANAGEMENT,MOGRA,HOOGLY	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	63
P001	ABACUS INSTITUTE OF ENGINEERING & MANAGEMENT,MOGRA,HOOGLY	114	CIV	CIVIL ENGINEERING	60
P001	ABACUS INSTITUTE OF ENGINEERING & MANAGEMENT,MOGRA,HOOGLY	121	ELE	ELECTRICAL ENGINEERING	60
P001	ABACUS INSTITUTE OF ENGINEERING & MANAGEMENT,MOGRA,HOOGLY	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	63
P001	ABACUS INSTITUTE OF ENGINEERING & MANAGEMENT,MOGRA,HOOGLY	132	MEC	MECHANICAL ENGINEERING	60
P002	ACADEMY OF TECHNOLOGY, ADISAPTAGRAM, HOOGLY	103	EIE	APPLIED ELECTRONICS & INSTRUMENTATION ENGINEERING/ ELECTRONICS & INSTRUMENTATION ENGINEERING	63
P002	ACADEMY OF TECHNOLOGY, ADISAPTAGRAM, HOOGLY	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	114
P002	ACADEMY OF TECHNOLOGY, ADISAPTAGRAM, HOOGLY	121	ELE	ELECTRICAL ENGINEERING	114
P002	ACADEMY OF TECHNOLOGY, ADISAPTAGRAM, HOOGLY	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	114
P002	ACADEMY OF TECHNOLOGY, ADISAPTAGRAM, HOOGLY	126	INT	INFORMATION TECHNOLOGY	57
P002	ACADEMY OF TECHNOLOGY, ADISAPTAGRAM, HOOGLY	132	MEC	MECHANICAL ENGINEERING	120
P003	ARYABHATTA INSTITUTE OF ENGINEERING & MANAGEMENT,PANAGAR,BURDWAN	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	63
P003	ARYABHATTA INSTITUTE OF ENGINEERING & MANAGEMENT,PANAGAR,BURDWAN	114	CIV	CIVIL ENGINEERING	60
P003	ARYABHATTA INSTITUTE OF ENGINEERING & MANAGEMENT,PANAGAR,BURDWAN	121	ELE	ELECTRICAL ENGINEERING	90
P003	ARYABHATTA INSTITUTE OF ENGINEERING & MANAGEMENT,PANAGAR,BURDWAN	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	120
P003	ARYABHATTA INSTITUTE OF ENGINEERING & MANAGEMENT,PANAGAR,BURDWAN	120	EEE	ELECTRICAL & ELECTRONICS ENGINEERING	30
P003	ARYABHATTA INSTITUTE OF ENGINEERING & MANAGEMENT,PANAGAR,BURDWAN	126	INT	INFORMATION TECHNOLOGY	30
P003	ARYABHATTA INSTITUTE OF ENGINEERING & MANAGEMENT,PANAGAR,BURDWAN	132	MEC	MECHANICAL ENGINEERING	60
P004	ASANSOL ENGINEERING COLLEGE,ASANSOL,BURDWAN	103	EIE	APPLIED ELECTRONICS & INSTRUMENTATION ENGINEERING/ ELECTRONICS & INSTRUMENTATION ENGINEERING	63

P004	ASANSOL ENGINEERING COLLEGE,ASANSOL,BURDWAN	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	114
P004	ASANSOL ENGINEERING COLLEGE,ASANSOL,BURDWAN	114	CIV	CIVIL ENGINEERING	63
P004	ASANSOL ENGINEERING COLLEGE,ASANSOL,BURDWAN	121	ELE	ELECTRICAL ENGINEERING	126
P004	ASANSOL ENGINEERING COLLEGE,ASANSOL,BURDWAN	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	114
P004	ASANSOL ENGINEERING COLLEGE,ASANSOL,BURDWAN	126	INT	INFORMATION TECHNOLOGY	95
P004	ASANSOL ENGINEERING COLLEGE,ASANSOL,BURDWAN	132	MEC	MECHANICAL ENGINEERING	126
P005	B.P. PODDAR INSTITUTE OF MANAGEMENT & TECHNOLOGY,KOLKATA	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	114
P005	B.P. PODDAR INSTITUTE OF MANAGEMENT & TECHNOLOGY,KOLKATA	121	ELE	ELECTRICAL ENGINEERING	57
P005	B.P. PODDAR INSTITUTE OF MANAGEMENT & TECHNOLOGY,KOLKATA	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	114
P005	B.P. PODDAR INSTITUTE OF MANAGEMENT & TECHNOLOGY,KOLKATA	126	INT	INFORMATION TECHNOLOGY	57
P006	BANKURA UNNAYANI INSTITUTE OF ENGINEERING,BANKURA	103	EIE	APPLIED ELECTRONICS & INSTRUMENTATION ENGINEERING/ ELECTRONICS & INSTRUMENTATION ENGINEERING	30
P006	BANKURA UNNAYANI INSTITUTE OF ENGINEERING,BANKURA	114	CIV	CIVIL ENGINEERING	60
P006	BANKURA UNNAYANI INSTITUTE OF ENGINEERING,BANKURA	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	63
P006	BANKURA UNNAYANI INSTITUTE OF ENGINEERING,BANKURA	121	ELE	ELECTRICAL ENGINEERING	63
P006	BANKURA UNNAYANI INSTITUTE OF ENGINEERING,BANKURA	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	60
P006	BANKURA UNNAYANI INSTITUTE OF ENGINEERING,BANKURA	126	INT	INFORMATION TECHNOLOGY	30
P006	BANKURA UNNAYANI INSTITUTE OF ENGINEERING,BANKURA	132	MEC	MECHANICAL ENGINEERING	63
P007	BCDA COLLEGE OF PHARMACY & TECHNOLOGY, HRIDAYPUR	107	PHE	B.PHARM/PHARMACEUTICAL TECHNOLOGY	63
P008	BENGAL COLLEGE OF ENGINEERING & TECHNOLOGY,DURGAPUR	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	126
P008	BENGAL COLLEGE OF ENGINEERING & TECHNOLOGY,DURGAPUR	114	CIV	CIVIL ENGINEERING	63
P008	BENGAL COLLEGE OF ENGINEERING & TECHNOLOGY,DURGAPUR	121	ELE	ELECTRICAL ENGINEERING	63
P008	BENGAL COLLEGE OF ENGINEERING & TECHNOLOGY,DURGAPUR	120	EEE	ELECTRICAL & ELECTRONICS ENGINEERING	63
P008	BENGAL COLLEGE OF ENGINEERING & TECHNOLOGY,DURGAPUR	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	126
P008	BENGAL COLLEGE OF ENGINEERING & TECHNOLOGY,DURGAPUR	126	INT	INFORMATION TECHNOLOGY	126
P008	BENGAL COLLEGE OF ENGINEERING & TECHNOLOGY,DURGAPUR	132	MEC	MECHANICAL ENGINEERING	63
P009	BENGAL COLLEGE OF ENGINEERING,DURGAPUR	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE &	95

				TECHNOLOGY	
P009	BENGAL COLLEGE OF ENGINEERING,DURGAPUR	121	ELE	ELECTRICAL ENGINEERING	63
P009	BENGAL COLLEGE OF ENGINEERING,DURGAPUR	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	95
P010	BENGAL COLLEGE OF PHARMACEUTICAL SCIENCE & RESEARCH,DURGAPUR	107	PHE	B.PHARM/PHARMACEUTICAL TECHNOLOGY	105
P011	BENGAL INSTITUTE OF TECHNOLOGY & MANAGEMENT, SANTINIKETAN	114	CIV	CIVIL ENGINEERING	120
P011	BENGAL INSTITUTE OF TECHNOLOGY & MANAGEMENT, SANTINIKETAN	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	95
P011	BENGAL INSTITUTE OF TECHNOLOGY & MANAGEMENT, SANTINIKETAN	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	90
P011	BENGAL INSTITUTE OF TECHNOLOGY & MANAGEMENT, SANTINIKETAN	121	ELE	ELECTRICAL ENGINEERING	60
P011	BENGAL INSTITUTE OF TECHNOLOGY & MANAGEMENT, SANTINIKETAN	126	INT	INFORMATION TECHNOLOGY	60
P011	BENGAL INSTITUTE OF TECHNOLOGY & MANAGEMENT, SANTINIKETAN	132	MEC	MECHANICAL ENGINEERING	180
P012	BENGAL INSTITUTE OF TECHNOLOGY,DHAPA,KOLKATA	109	BOT	BIOTECHNOLOGY	32
P012	BENGAL INSTITUTE OF TECHNOLOGY,DHAPA,KOLKATA	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	57
P012	BENGAL INSTITUTE OF TECHNOLOGY,DHAPA,KOLKATA	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	63
P012	BENGAL INSTITUTE OF TECHNOLOGY,DHAPA,KOLKATA	126	INT	INFORMATION TECHNOLOGY	63
P013	BENGAL SCHOOL OF TECHNOLOGY,SUGANDHA,HOOGHLY	107	PHE	B.PHARM/PHARMACEUTICAL TECHNOLOGY	114
P014	BHARAT TECHNOLOGY, ULUBERIA, HOWRAH	107	PHE	B.PHARM/PHARMACEUTICAL TECHNOLOGY	114
P015	BIRBHUM INSTITUTE OF ENGINEERING & TECHNOLOGY,SURI,BIRBHUM	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	63
P015	BIRBHUM INSTITUTE OF ENGINEERING & TECHNOLOGY,SURI,BIRBHUM	114	CIV	CIVIL ENGINEERING	120
P015	BIRBHUM INSTITUTE OF ENGINEERING & TECHNOLOGY,SURI,BIRBHUM	121	ELE	ELECTRICAL ENGINEERING	63
P015	BIRBHUM INSTITUTE OF ENGINEERING & TECHNOLOGY,SURI,BIRBHUM	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	120
P015	BIRBHUM INSTITUTE OF ENGINEERING & TECHNOLOGY,SURI,BIRBHUM	126	INT	INFORMATION TECHNOLOGY	60
P015	BIRBHUM INSTITUTE OF ENGINEERING & TECHNOLOGY,SURI,BIRBHUM	132	MEC	MECHANICAL ENGINEERING	120
P069	BRAINWARE GROUP OF INSTITUTIONS-SAVITA DEVI EDUCATION TRUST,BARASAT	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	63
P069	BRAINWARE GROUP OF INSTITUTIONS-SAVITA DEVI EDUCATION TRUST,BARASAT	114	CIV	CIVIL ENGINEERING	63
P069	BRAINWARE GROUP OF INSTITUTIONS-SAVITA DEVI EDUCATION TRUST,BARASAT	121	ELE	ELECTRICAL ENGINEERING	63
P069	BRAINWARE GROUP OF INSTITUTIONS-SAVITA DEVI EDUCATION TRUST,BARASAT	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	63
P069	BRAINWARE GROUP OF INSTITUTIONS-	132	MEC	MECHANICAL ENGINEERING	63

	SAVITA DEVI EDUCATION TRUST,BARASAT				
P016	BUDGE BUDGE INSTITUTE OF TECHNOLOGY,BUDGE-BUDGE	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	63
P016	BUDGE BUDGE INSTITUTE OF TECHNOLOGY,BUDGE-BUDGE	114	CIV	CIVIL ENGINEERING	126
P016	BUDGE BUDGE INSTITUTE OF TECHNOLOGY,BUDGE-BUDGE	121	ELE	ELECTRICAL ENGINEERING	63
P016	BUDGE BUDGE INSTITUTE OF TECHNOLOGY,BUDGE-BUDGE	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	63
P016	BUDGE BUDGE INSTITUTE OF TECHNOLOGY,BUDGE-BUDGE	132	MEC	MECHANICAL ENGINEERING	126
P017	CALCUTTA INSTITUTE OF ENGINEERING & MANAGEMENT,TOLLYGUNGE,KOLKATA	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	57
P017	CALCUTTA INSTITUTE OF ENGINEERING & MANAGEMENT,TOLLYGUNGE,KOLKATA	114	CIV	CIVIL ENGINEERING	57
P017	CALCUTTA INSTITUTE OF ENGINEERING & MANAGEMENT,TOLLYGUNGE,KOLKATA	121	ELE	ELECTRICAL ENGINEERING	114
P017	CALCUTTA INSTITUTE OF ENGINEERING & MANAGEMENT,TOLLYGUNGE,KOLKATA	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	57
P017	CALCUTTA INSTITUTE OF ENGINEERING & MANAGEMENT,TOLLYGUNGE,KOLKATA	126	INT	INFORMATION TECHNOLOGY	57
P017	CALCUTTA INSTITUTE OF ENGINEERING & MANAGEMENT,TOLLYGUNGE,KOLKATA	127	ICE	INSTRUMENTATION AND CONTROL ENGINEERING	57
P018	CALCUTTA INSTITUTE OF PHARMACEUTICAL TECH. & ALLIED HEALTH SCIENCES,ULUBERIA	107	PHE	B.PHARM/PHARMACEUTICAL TECHNOLOGY	57
P019	CALCUTTA INSTITUTE OF TECHNOLOGY, ULUBERIA,HOWRAH	114	CIV	CIVIL ENGINEERING	60
P019	CALCUTTA INSTITUTE OF TECHNOLOGY, ULUBERIA,HOWRAH	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	63
P019	CALCUTTA INSTITUTE OF TECHNOLOGY, ULUBERIA,HOWRAH	111	CHE	CHEMICAL ENGINEERING	60
P019	CALCUTTA INSTITUTE OF TECHNOLOGY, ULUBERIA,HOWRAH	121	ELE	ELECTRICAL ENGINEERING	60
P019	CALCUTTA INSTITUTE OF TECHNOLOGY, ULUBERIA,HOWRAH	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	60
P019	CALCUTTA INSTITUTE OF TECHNOLOGY, ULUBERIA,HOWRAH	132	MEC	MECHANICAL ENGINEERING	60
P020	CAMELLIA INSTITUTE OF ENGINEERING AND TECHNOLOGY,BUD BUD, BURDWAN	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	30
P020	CAMELLIA INSTITUTE OF ENGINEERING AND TECHNOLOGY,BUD BUD, BURDWAN	114	CIV	CIVIL ENGINEERING	60
P020	CAMELLIA INSTITUTE OF ENGINEERING AND TECHNOLOGY,BUD BUD, BURDWAN	121	ELE	ELECTRICAL ENGINEERING	30
P020	CAMELLIA INSTITUTE OF ENGINEERING AND TECHNOLOGY,BUD BUD, BURDWAN	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	30
P020	CAMELLIA INSTITUTE OF ENGINEERING AND TECHNOLOGY,BUD BUD, BURDWAN	132	MEC	MECHANICAL ENGINEERING	60
P021	CAMELLIA INSTITUTE OF TECHNOLOGY & MANAGEMENT, BAINCHI, HOOGHLY	114	CIV	CIVIL ENGINEERING	120
P021	CAMELLIA INSTITUTE OF TECHNOLOGY & MANAGEMENT, BAINCHI, HOOGHLY	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	60

P021	CAMELLIA INSTITUTE OF TECHNOLOGY & MANAGEMENT, BAINCHI, HOOGHLY	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	60
P021	CAMELLIA INSTITUTE OF TECHNOLOGY & MANAGEMENT, BAINCHI, HOOGHLY	121	ELE	ELECTRICAL ENGINEERING	60
P021	CAMELLIA INSTITUTE OF TECHNOLOGY & MANAGEMENT, BAINCHI, HOOGHLY	132	MEC	MECHANICAL ENGINEERING	120
P022	CAMELLIA INSTITUTE OF TECHNOLOGY, BADU ROAD, MADHYAMGRAM	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	63
P022	CAMELLIA INSTITUTE OF TECHNOLOGY, BADU ROAD, MADHYAMGRAM	114	CIV	CIVIL ENGINEERING	60
P022	CAMELLIA INSTITUTE OF TECHNOLOGY, BADU ROAD, MADHYAMGRAM	120	EEE	ELECTRICAL & ELECTRONICS ENGINEERING	60
P022	CAMELLIA INSTITUTE OF TECHNOLOGY, BADU ROAD, MADHYAMGRAM	121	ELE	ELECTRICAL ENGINEERING	60
P022	CAMELLIA INSTITUTE OF TECHNOLOGY, BADU ROAD, MADHYAMGRAM	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	60
P022	CAMELLIA INSTITUTE OF TECHNOLOGY, BADU ROAD, MADHYAMGRAM	132	MEC	MECHANICAL ENGINEERING	120
P023	CAMELLIA SCHOOL OF ENGINEERING & TECHNOLOGY, BARASAT	114	CIV	CIVIL ENGINEERING	90
P023	CAMELLIA SCHOOL OF ENGINEERING & TECHNOLOGY, BARASAT	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	48
P023	CAMELLIA SCHOOL OF ENGINEERING & TECHNOLOGY, BARASAT	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	45
P023	CAMELLIA SCHOOL OF ENGINEERING & TECHNOLOGY, BARASAT	120	EEE	ELECTRICAL & ELECTRONICS ENGINEERING	45
P023	CAMELLIA SCHOOL OF ENGINEERING & TECHNOLOGY, BARASAT	121	ELE	ELECTRICAL ENGINEERING	90
P023	CAMELLIA SCHOOL OF ENGINEERING & TECHNOLOGY, BARASAT	126	INT	INFORMATION TECHNOLOGY	45
P023	CAMELLIA SCHOOL OF ENGINEERING & TECHNOLOGY, BARASAT	132	MEC	MECHANICAL ENGINEERING	90
P024	COLLEGE OF ENGINEERING AND MANAGEMENT, KOLAGHAT	103	EIE	APPLIED ELECTRONICS & INSTRUMENTATION ENGINEERING/ELECTRONICS & INSTRUMENTATION ENGINEERING	63
P024	COLLEGE OF ENGINEERING AND MANAGEMENT, KOLAGHAT	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	63
P024	COLLEGE OF ENGINEERING AND MANAGEMENT, KOLAGHAT	121	ELE	ELECTRICAL ENGINEERING	63
P024	COLLEGE OF ENGINEERING AND MANAGEMENT, KOLAGHAT	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	63
P024	COLLEGE OF ENGINEERING AND MANAGEMENT, KOLAGHAT	126	INT	INFORMATION TECHNOLOGY	63
P024	COLLEGE OF ENGINEERING AND MANAGEMENT, KOLAGHAT	132	MEC	MECHANICAL ENGINEERING	63
P025	DR. B. C. ROY COLLEGE OF PHARMACY AND ALLIED HEALTH SCIENCES	107	PHE	B.PHARM/PHARMACEUTICAL TECHNOLOGY	126
P026	DR. B. C. ROY ENGINEERING COLLEGE,DURGAPUR	103	EIE	APPLIED ELECTRONICS & INSTRUMENTATION ENGINEERING/ELECTRONICS & INSTRUMENTATION ENGINEERING	63
P026	DR. B. C. ROY ENGINEERING COLLEGE,DURGAPUR	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	120

P026	DR. B. C. ROY ENGINEERING COLLEGE,DURGAPUR	114	CIV	CIVIL ENGINEERING	125
P026	DR. B. C. ROY ENGINEERING COLLEGE,DURGAPUR	121	ELE	ELECTRICAL ENGINEERING	125
P026	DR. B. C. ROY ENGINEERING COLLEGE,DURGAPUR	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	125
P026	DR. B. C. ROY ENGINEERING COLLEGE,DURGAPUR	126	INT	INFORMATION TECHNOLOGY	63
P026	DR. B. C. ROY ENGINEERING COLLEGE,DURGAPUR	132	MEC	MECHANICAL ENGINEERING	123
P027	DR. SUDHIR CHANDRA SUR DEGREE ENGINEERING COLLEGE,DUM-DUM	105	ATE	AUTOMOBILE ENGINEERING	51
P027	DR. SUDHIR CHANDRA SUR DEGREE ENGINEERING COLLEGE,DUM-DUM	114	CIV	CIVIL ENGINEERING	48
P027	DR. SUDHIR CHANDRA SUR DEGREE ENGINEERING COLLEGE,DUM-DUM	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	51
P027	DR. SUDHIR CHANDRA SUR DEGREE ENGINEERING COLLEGE,DUM-DUM	121	ELE	ELECTRICAL ENGINEERING	48
P027	DR. SUDHIR CHANDRA SUR DEGREE ENGINEERING COLLEGE,DUM-DUM	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	102
P027	DR. SUDHIR CHANDRA SUR DEGREE ENGINEERING COLLEGE,DUM-DUM	132	MEC	MECHANICAL ENGINEERING	102
P028	DREAM INSTITUTE OF TECHNOLOGY,BISHNUPUR,24-PARGANAS-SOUTH	114	CIV	CIVIL ENGINEERING	54
P028	DREAM INSTITUTE OF TECHNOLOGY,BISHNUPUR,24-PARGANAS-SOUTH	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	57
P028	DREAM INSTITUTE OF TECHNOLOGY,BISHNUPUR,24-PARGANAS-SOUTH	121	ELE	ELECTRICAL ENGINEERING	108
P028	DREAM INSTITUTE OF TECHNOLOGY,BISHNUPUR,24-PARGANAS-SOUTH	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	108
P028	DREAM INSTITUTE OF TECHNOLOGY,BISHNUPUR,24-PARGANAS-SOUTH	132	MEC	MECHANICAL ENGINEERING	54
P029	DUMKAL INSTITUTE OF ENGINEERING & TECHNOLOGY,DUMKAL,MURSHIDABAD	103	EIE	APPLIED ELECTRONICS & INSTRUMENTATION ENGINEERING/ELECTRONICS & INSTRUMENTATION ENGINEERING	0
P029	DUMKAL INSTITUTE OF ENGINEERING & TECHNOLOGY,DUMKAL,MURSHIDABAD	114	CIV	CIVIL ENGINEERING	60
P029	DUMKAL INSTITUTE OF ENGINEERING & TECHNOLOGY,DUMKAL,MURSHIDABAD	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	60
P029	DUMKAL INSTITUTE OF ENGINEERING & TECHNOLOGY,DUMKAL,MURSHIDABAD	121	ELE	ELECTRICAL ENGINEERING	60
P029	DUMKAL INSTITUTE OF ENGINEERING & TECHNOLOGY,DUMKAL,MURSHIDABAD	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	60
P029	DUMKAL INSTITUTE OF ENGINEERING & TECHNOLOGY,DUMKAL,MURSHIDABAD	126	INT	INFORMATION TECHNOLOGY	0
P029	DUMKAL INSTITUTE OF ENGINEERING & TECHNOLOGY,DUMKAL,MURSHIDABAD	132	MEC	MECHANICAL ENGINEERING	60
P030	DURGAPUR INSTITUTE OF ADVANCED TECHNOLOGY & MANAGEMENT,DURGAPUR	111	CHE	CHEMICAL ENGINEERING	60

P030	DURGAPUR INSTITUTE OF ADVANCED TECHNOLOGY & MANAGEMENT,DURGAPUR	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	95
P030	DURGAPUR INSTITUTE OF ADVANCED TECHNOLOGY & MANAGEMENT,DURGAPUR	121	ELE	ELECTRICAL ENGINEERING	120
P030	DURGAPUR INSTITUTE OF ADVANCED TECHNOLOGY & MANAGEMENT,DURGAPUR	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	95
P030	DURGAPUR INSTITUTE OF ADVANCED TECHNOLOGY & MANAGEMENT,DURGAPUR	126	INT	INFORMATION TECHNOLOGY	63
P030	DURGAPUR INSTITUTE OF ADVANCED TECHNOLOGY & MANAGEMENT,DURGAPUR	132	MEC	MECHANICAL ENGINEERING	126
P031	ELITTE COLLEGE OF ENGINEERING,MAHISPOTA,SODEPUR	114	CIV	CIVIL ENGINEERING	60
P031	ELITTE COLLEGE OF ENGINEERING,MAHISPOTA,SODEPUR	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	63
P031	ELITTE COLLEGE OF ENGINEERING,MAHISPOTA,SODEPUR	121	ELE	ELECTRICAL ENGINEERING	60
P031	ELITTE COLLEGE OF ENGINEERING,MAHISPOTA,SODEPUR	132	MEC	MECHANICAL ENGINEERING	60
P032	FUTURE INSTITUTE OF ENGINEERING & MANAGEMENT,SONARPUR	103	EIE	APPLIED ELECTRONICS & INSTRUMENTATION ENGINEERING/ ELECTRONICS & INSTRUMENTATION ENGINEERING	63
P032	FUTURE INSTITUTE OF ENGINEERING & MANAGEMENT,SONARPUR	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	114
P032	FUTURE INSTITUTE OF ENGINEERING & MANAGEMENT,SONARPUR	121	ELE	ELECTRICAL ENGINEERING	57
P032	FUTURE INSTITUTE OF ENGINEERING & MANAGEMENT,SONARPUR	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	114
P032	FUTURE INSTITUTE OF ENGINEERING & MANAGEMENT,SONARPUR	126	INT	INFORMATION TECHNOLOGY	57
P032	FUTURE INSTITUTE OF ENGINEERING & MANAGEMENT,SONARPUR	132	MEC	MECHANICAL ENGINEERING	57
P033	FUTURE INSTITUTE OF TECHNOLOGY, BORAL, GARIA	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	57
P033	FUTURE INSTITUTE OF TECHNOLOGY, BORAL, GARIA	114	CIV	CIVIL ENGINEERING	63
P033	FUTURE INSTITUTE OF TECHNOLOGY, BORAL, GARIA	121	ELE	ELECTRICAL ENGINEERING	63
P033	FUTURE INSTITUTE OF TECHNOLOGY, BORAL, GARIA	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	57
P033	FUTURE INSTITUTE OF TECHNOLOGY, BORAL, GARIA	132	MEC	MECHANICAL ENGINEERING	63
P034	GARGI MEMORIAL INSTITUTE OF TECHNOLOGY,BARUIPUR,KOLKATA	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	51
P034	GARGI MEMORIAL INSTITUTE OF TECHNOLOGY,BARUIPUR,KOLKATA	114	CIV	CIVIL ENGINEERING	51
P034	GARGI MEMORIAL INSTITUTE OF TECHNOLOGY,BARUIPUR,KOLKATA	121	ELE	ELECTRICAL ENGINEERING	51
P034	GARGI MEMORIAL INSTITUTE OF TECHNOLOGY,BARUIPUR,KOLKATA	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	51

P034	GARGI MEMORIAL INSTITUTE OF TECHNOLOGY,BARUIPUR,KOLKATA	132	MEC	MECHANICAL ENGINEERING	51
P035	GLOBAL INSTITUTE OF MANAGEMENT AND TECHNOLOGY,KRISHNANAGAR,NADIA	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	60
P035	GLOBAL INSTITUTE OF MANAGEMENT AND TECHNOLOGY,KRISHNANAGAR,NADIA	114	CIV	CIVIL ENGINEERING	120
P035	GLOBAL INSTITUTE OF MANAGEMENT AND TECHNOLOGY,KRISHNANAGAR,NADIA	121	ELE	ELECTRICAL ENGINEERING	60
P035	GLOBAL INSTITUTE OF MANAGEMENT AND TECHNOLOGY,KRISHNANAGAR,NADIA	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	60
P035	GLOBAL INSTITUTE OF MANAGEMENT AND TECHNOLOGY,KRISHNANAGAR,NADIA	132	MEC	MECHANICAL ENGINEERING	60
P036	GREATER KOLKATA COLLEGE OF ENGINEERING & MANAGEMENT,BARUIPUR	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	60
P036	GREATER KOLKATA COLLEGE OF ENGINEERING & MANAGEMENT,BARUIPUR	114	CIV	CIVIL ENGINEERING	60
P036	GREATER KOLKATA COLLEGE OF ENGINEERING & MANAGEMENT,BARUIPUR	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	60
P036	GREATER KOLKATA COLLEGE OF ENGINEERING & MANAGEMENT,BARUIPUR	121	ELE	ELECTRICAL ENGINEERING	60
P036	GREATER KOLKATA COLLEGE OF ENGINEERING & MANAGEMENT,BARUIPUR	132	MEC	MECHANICAL ENGINEERING	60
P037	GUPTA COLLEGE OF TECHNOLOGICAL SCIENCES,ASANSOL,BURDWAN	107	PHE	B.PHARM/PHARMACEUTICAL TECHNOLOGY	105
P038	GURU NANAK INSTITUTE OF PHARMACEUTICAL SCIENCE AND TECHNOLOGY,SODEPUR	107	PHE	B.PHARM/PHARMACEUTICAL TECHNOLOGY	66
P039	GURU NANAK INSTITUTE OF TECHNOLOGY,PANIHATI,SODEPUR	103	EIE	APPLIED ELECTRONICS & INSTRUMENTATION ENGINEERING/ELECTRONICS & INSTRUMENTATION ENGINEERING	33
P039	GURU NANAK INSTITUTE OF TECHNOLOGY,PANIHATI,SODEPUR	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	66
P039	GURU NANAK INSTITUTE OF TECHNOLOGY,PANIHATI,SODEPUR	121	ELE	ELECTRICAL ENGINEERING	66
P039	GURU NANAK INSTITUTE OF TECHNOLOGY,PANIHATI,SODEPUR	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	66
P039	GURU NANAK INSTITUTE OF TECHNOLOGY,PANIHATI,SODEPUR	126	INT	INFORMATION TECHNOLOGY	33
P039	GURU NANAK INSTITUTE OF TECHNOLOGY,PANIHATI,SODEPUR	124	FET	FOOD TECHNOLOGY	33
P040	HALDIA INSTITUTE OF TECHNOLOGY,HALDIA,PURBA MEDINIPUR	103	EIE	APPLIED ELECTRONICS & INSTRUMENTATION ENGINEERING/ELECTRONICS & INSTRUMENTATION ENGINEERING	57
P040	HALDIA INSTITUTE OF TECHNOLOGY,HALDIA,PURBA MEDINIPUR	109	BOT	BIOTECHNOLOGY	57
P040	HALDIA INSTITUTE OF TECHNOLOGY,HALDIA,PURBA MEDINIPUR	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	114

P040	HALDIA INSTITUTE OF TECHNOLOGY, HALDIA, PURBA MEDINIPUR	114	CIV	CIVIL ENGINEERING	114
P040	HALDIA INSTITUTE OF TECHNOLOGY, HALDIA, PURBA MEDINIPUR	111	CHE	CHEMICAL ENGINEERING	57
P040	HALDIA INSTITUTE OF TECHNOLOGY, HALDIA, PURBA MEDINIPUR	121	ELE	ELECTRICAL ENGINEERING	114
P040	HALDIA INSTITUTE OF TECHNOLOGY, HALDIA, PURBA MEDINIPUR	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	114
P040	HALDIA INSTITUTE OF TECHNOLOGY, HALDIA, PURBA MEDINIPUR	124	FET	FOOD TECHNOLOGY	57
P040	HALDIA INSTITUTE OF TECHNOLOGY, HALDIA, PURBA MEDINIPUR	126	INT	INFORMATION TECHNOLOGY	57
P040	HALDIA INSTITUTE OF TECHNOLOGY, HALDIA, PURBA MEDINIPUR	127	ICE	INSTRUMENTATION AND CONTROL ENGINEERING	57
P040	HALDIA INSTITUTE OF TECHNOLOGY, HALDIA, PURBA MEDINIPUR	132	MEC	MECHANICAL ENGINEERING	114
P040	HALDIA INSTITUTE OF TECHNOLOGY, HALDIA, PURBA MEDINIPUR	141	PRO	PRODUCTION ENGINEERING	57
P041	HEMNALINI MEMORIAL COLLEGE OF ENGINEERING, HARINGHATA	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	60
P041	HEMNALINI MEMORIAL COLLEGE OF ENGINEERING, HARINGHATA	114	CIV	CIVIL ENGINEERING	60
P041	HEMNALINI MEMORIAL COLLEGE OF ENGINEERING, HARINGHATA	113	CVE	CIVIL AND ENVIRONMENTAL ENGINEERING	60
P041	HEMNALINI MEMORIAL COLLEGE OF ENGINEERING, HARINGHATA	132	MEC	MECHANICAL ENGINEERING	60
P041	HEMNALINI MEMORIAL COLLEGE OF ENGINEERING, HARINGHATA	124	FET	FOOD TECHNOLOGY	60
P042	HERITAGE INSTITUTE OF TECHNOLOGY, KOLKATA	103	EIE	APPLIED ELECTRONICS & INSTRUMENTATION ENGINEERING/ELECTRONICS & INSTRUMENTATION ENGINEERING	57
P042	HERITAGE INSTITUTE OF TECHNOLOGY, KOLKATA	109	BOT	BIOTECHNOLOGY	57
P042	HERITAGE INSTITUTE OF TECHNOLOGY, KOLKATA	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	171
P042	HERITAGE INSTITUTE OF TECHNOLOGY, KOLKATA	114	CIV	CIVIL ENGINEERING	114
P042	HERITAGE INSTITUTE OF TECHNOLOGY, KOLKATA	111	CHE	CHEMICAL ENGINEERING	57
P042	HERITAGE INSTITUTE OF TECHNOLOGY, KOLKATA	121	ELE	ELECTRICAL ENGINEERING	57
P042	HERITAGE INSTITUTE OF TECHNOLOGY, KOLKATA	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	171
P042	HERITAGE INSTITUTE OF TECHNOLOGY, KOLKATA	126	INT	INFORMATION TECHNOLOGY	57
P042	HERITAGE INSTITUTE OF TECHNOLOGY, KOLKATA	132	MEC	MECHANICAL ENGINEERING	114
P043	HOOGHLY ENGINEERING & TECHNOLOGY COLLEGE, HOOGHLY	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	63
P043	HOOGHLY ENGINEERING & TECHNOLOGY COLLEGE, HOOGHLY	114	CIV	CIVIL ENGINEERING	63
P043	HOOGHLY ENGINEERING & TECHNOLOGY COLLEGE, HOOGHLY	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	63
P043	HOOGHLY ENGINEERING & TECHNOLOGY COLLEGE, HOOGHLY	121	ELE	ELECTRICAL ENGINEERING	63

P043	HOOGLY ENGINEERING & TECHNOLOGY COLLEGE,HOOGLY	132	MEC	MECHANICAL ENGINEERING	63
P044	IDEAL INSTITUTE OF ENGINEERING,KALYANI	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	63
P044	IDEAL INSTITUTE OF ENGINEERING,KALYANI	114	CIV	CIVIL ENGINEERING	60
P044	IDEAL INSTITUTE OF ENGINEERING,KALYANI	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	60
P044	IDEAL INSTITUTE OF ENGINEERING,KALYANI	121	ELE	ELECTRICAL ENGINEERING	60
P044	IDEAL INSTITUTE OF ENGINEERING,KALYANI	132	MEC	MECHANICAL ENGINEERING	60
P045	IMPS COLLEGE OF ENGINEERING & TECHNOLOGY,MALDA	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	63
P045	IMPS COLLEGE OF ENGINEERING & TECHNOLOGY,MALDA	114	CIV	CIVIL ENGINEERING	120
P045	IMPS COLLEGE OF ENGINEERING & TECHNOLOGY,MALDA	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	60
P045	IMPS COLLEGE OF ENGINEERING & TECHNOLOGY,MALDA	121	ELE	ELECTRICAL ENGINEERING	60
P046	INSTITUTE OF ENGINEERING & MANAGEMENT,SALT LAKE	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	171
P046	INSTITUTE OF ENGINEERING & MANAGEMENT,SALT LAKE	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	171
P046	INSTITUTE OF ENGINEERING & MANAGEMENT,SALT LAKE	126	INT	INFORMATION TECHNOLOGY	114
P046	INSTITUTE OF ENGINEERING & MANAGEMENT,SALT LAKE	121	ELE	ELECTRICAL ENGINEERING	114
P046	INSTITUTE OF ENGINEERING & MANAGEMENT,SALT LAKE	120	EEE	ELECTRICAL & ELECTRONICS ENGINEERING	57
P046	INSTITUTE OF ENGINEERING & MANAGEMENT,SALT LAKE	132	MEC	MECHANICAL ENGINEERING	57
P047	INSTITUTE OF SCIENCE AND TECHNOLOGY,PASCHIM MEDINIPUR	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	60
P047	INSTITUTE OF SCIENCE AND TECHNOLOGY,PASCHIM MEDINIPUR	114	CIV	CIVIL ENGINEERING	120
P047	INSTITUTE OF SCIENCE AND TECHNOLOGY,PASCHIM MEDINIPUR	121	ELE	ELECTRICAL ENGINEERING	60
P047	INSTITUTE OF SCIENCE AND TECHNOLOGY,PASCHIM MEDINIPUR	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	60
P047	INSTITUTE OF SCIENCE AND TECHNOLOGY,PASCHIM MEDINIPUR	120	EEE	ELECTRICAL & ELECTRONICS ENGINEERING	60
P047	INSTITUTE OF SCIENCE AND TECHNOLOGY,PASCHIM MEDINIPUR	132	MEC	MECHANICAL ENGINEERING	60
P048	JIS COLLEGE OF ENGINEERING,KALYANI,NADIA	108	BMD	BIOMEDICAL ENGINEERING	51
P048	JIS COLLEGE OF ENGINEERING,KALYANI,NADIA	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	90
P048	JIS COLLEGE OF ENGINEERING,KALYANI,NADIA	114	CIV	CIVIL ENGINEERING	108
P048	JIS COLLEGE OF ENGINEERING,KALYANI,NADIA	121	ELE	ELECTRICAL ENGINEERING	108

P048	JIS COLLEGE OF ENGINEERING, KALYANI, NADIA	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	108
P048	JIS COLLEGE OF ENGINEERING, KALYANI, NADIA	126	INT	INFORMATION TECHNOLOGY	51
P048	JIS COLLEGE OF ENGINEERING, KALYANI, NADIA	132	MEC	MECHANICAL ENGINEERING	108
P049	JLD ENGINEERING AND MANAGEMENT COLLEGE, BARUIPUR	114	CIV	CIVIL ENGINEERING	60
P049	JLD ENGINEERING AND MANAGEMENT COLLEGE, BARUIPUR	121	ELE	ELECTRICAL ENGINEERING	60
P049	JLD ENGINEERING AND MANAGEMENT COLLEGE, BARUIPUR	132	MEC	MECHANICAL ENGINEERING	60
P049	JLD ENGINEERING AND MANAGEMENT COLLEGE, BARUIPUR	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	60
P049	JLD ENGINEERING AND MANAGEMENT COLLEGE, BARUIPUR	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	60
P050	KANAD INSTITUTE OF ENGINEERING & MANAGEMENT, MANKAR, BURDWAN	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	42
P050	KANAD INSTITUTE OF ENGINEERING & MANAGEMENT, MANKAR, BURDWAN	114	CIV	CIVIL ENGINEERING	42
P050	KANAD INSTITUTE OF ENGINEERING & MANAGEMENT, MANKAR, BURDWAN	121	ELE	ELECTRICAL ENGINEERING	42
P050	KANAD INSTITUTE OF ENGINEERING & MANAGEMENT, MANKAR, BURDWAN	132	MEC	MECHANICAL ENGINEERING	84
P051	MALLABHUM INSTITUTE OF TECHNOLOGY, BISHNUPUR, BANKURA	114	CIV	CIVIL ENGINEERING	60
P051	MALLABHUM INSTITUTE OF TECHNOLOGY, BISHNUPUR, BANKURA	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	63
P051	MALLABHUM INSTITUTE OF TECHNOLOGY, BISHNUPUR, BANKURA	121	ELE	ELECTRICAL ENGINEERING	60
P051	MALLABHUM INSTITUTE OF TECHNOLOGY, BISHNUPUR, BANKURA	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	90
P051	MALLABHUM INSTITUTE OF TECHNOLOGY, BISHNUPUR, BANKURA	132	MEC	MECHANICAL ENGINEERING	120
P052	MCKV INSTITUTE OF ENGINEERING, LILUAH, HOWRAH	105	ATE	AUTOMOBILE ENGINEERING	57
P052	MCKV INSTITUTE OF ENGINEERING, LILUAH, HOWRAH	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	57
P052	MCKV INSTITUTE OF ENGINEERING, LILUAH, HOWRAH	121	ELE	ELECTRICAL ENGINEERING	57
P052	MCKV INSTITUTE OF ENGINEERING, LILUAH, HOWRAH	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	57
P052	MCKV INSTITUTE OF ENGINEERING, LILUAH, HOWRAH	126	INT	INFORMATION TECHNOLOGY	57
P052	MCKV INSTITUTE OF ENGINEERING, LILUAH, HOWRAH	132	MEC	MECHANICAL ENGINEERING	57
P053	MEGHNAD SAHA INSTITUTE OF TECHNOLOGY, KOLKATA	114	CIV	CIVIL ENGINEERING	114
P053	MEGHNAD SAHA INSTITUTE OF TECHNOLOGY, KOLKATA	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	57
P053	MEGHNAD SAHA INSTITUTE OF TECHNOLOGY, KOLKATA	121	ELE	ELECTRICAL ENGINEERING	114

P053	MEGHNAD SAHA INSTITUTE OF TECHNOLOGY,KOLKATA	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	57
P053	MEGHNAD SAHA INSTITUTE OF TECHNOLOGY,KOLKATA	126	INT	INFORMATION TECHNOLOGY	57
P053	MEGHNAD SAHA INSTITUTE OF TECHNOLOGY,KOLKATA	132	MEC	MECHANICAL ENGINEERING	57
P054	MODERN INSTITUTE OF ENGINEERING & TECHNOLOGY,BANDEL,HOOGLY	103	EIE	APPLIED ELECTRONICS & INSTRUMENTATION ENGINEERING/ ELECTRONICS & INSTRUMENTATION ENGINEERING	0
P054	MODERN INSTITUTE OF ENGINEERING & TECHNOLOGY,BANDEL,HOOGLY	114	CIV	CIVIL ENGINEERING	54
P054	MODERN INSTITUTE OF ENGINEERING & TECHNOLOGY,BANDEL,HOOGLY	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	57
P054	MODERN INSTITUTE OF ENGINEERING & TECHNOLOGY,BANDEL,HOOGLY	121	ELE	ELECTRICAL ENGINEERING	54
P054	MODERN INSTITUTE OF ENGINEERING & TECHNOLOGY,BANDEL,HOOGLY	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	54
P054	MODERN INSTITUTE OF ENGINEERING & TECHNOLOGY,BANDEL,HOOGLY	132	MEC	MECHANICAL ENGINEERING	54
P055	MURSHIDABAD COLLEGE OF ENGINEERING & TECHNOLOGY,MURSHIDABAD	114	CIV	CIVIL ENGINEERING	60
P055	MURSHIDABAD COLLEGE OF ENGINEERING & TECHNOLOGY,MURSHIDABAD	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	63
P055	MURSHIDABAD COLLEGE OF ENGINEERING & TECHNOLOGY,MURSHIDABAD	121	ELE	ELECTRICAL ENGINEERING	60
P055	MURSHIDABAD COLLEGE OF ENGINEERING & TECHNOLOGY,MURSHIDABAD	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	60
P055	MURSHIDABAD COLLEGE OF ENGINEERING & TECHNOLOGY,MURSHIDABAD	126	INT	INFORMATION TECHNOLOGY	60
P056	NARULA INSTITUTE OF TECHNOLOGY,AGARPARA,KOLKATA	103	EIE	APPLIED ELECTRONICS & INSTRUMENTATION ENGINEERING/ ELECTRONICS & INSTRUMENTATION ENGINEERING	57
P056	NARULA INSTITUTE OF TECHNOLOGY,AGARPARA,KOLKATA	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	66
P056	NARULA INSTITUTE OF TECHNOLOGY,AGARPARA,KOLKATA	114	CIV	CIVIL ENGINEERING	114
P056	NARULA INSTITUTE OF TECHNOLOGY,AGARPARA,KOLKATA	121	ELE	ELECTRICAL ENGINEERING	114
P056	NARULA INSTITUTE OF TECHNOLOGY,AGARPARA,KOLKATA	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	96
P056	NARULA INSTITUTE OF TECHNOLOGY,AGARPARA,KOLKATA	126	INT	INFORMATION TECHNOLOGY	48
P056	NARULA INSTITUTE OF TECHNOLOGY,AGARPARA,KOLKATA	132	MEC	MECHANICAL ENGINEERING	48
P058	NEOTIA INSTITUTE OF TECHNOLOGY MANAGEMENT AND SCIENCE (ITME),D.H.ROAD	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	63
P058	NEOTIA INSTITUTE OF TECHNOLOGY MANAGEMENT AND SCIENCE (ITME),D.H.ROAD	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	60

P059	NETAJI SUBHAS ENGINEERING COLLEGE,GARIA,KOLKATA	103	EIE	APPLIED ELECTRONICS & INSTRUMENTATION ENGINEERING/ ELECTRONICS & INSTRUMENTATION ENGINEERING	63
P059	NETAJI SUBHAS ENGINEERING COLLEGE,GARIA,KOLKATA	108	BMD	BIOMEDICAL ENGINEERING	32
P059	NETAJI SUBHAS ENGINEERING COLLEGE,GARIA,KOLKATA	114	CIV	CIVIL ENGINEERING	120
P059	NETAJI SUBHAS ENGINEERING COLLEGE,GARIA,KOLKATA	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	114
P059	NETAJI SUBHAS ENGINEERING COLLEGE,GARIA,KOLKATA	121	ELE	ELECTRICAL ENGINEERING	114
P059	NETAJI SUBHAS ENGINEERING COLLEGE,GARIA,KOLKATA	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	114
P059	NETAJI SUBHAS ENGINEERING COLLEGE,GARIA,KOLKATA	126	INT	INFORMATION TECHNOLOGY	86
P059	NETAJI SUBHAS ENGINEERING COLLEGE,GARIA,KOLKATA	132	MEC	MECHANICAL ENGINEERING	120
P060	NETAJI SUBHASH CHANDRA BOSE INSTITUTE OF PHARMACY,CHAKDAH.NADIA	107	PHE	B.PHARM/PHARMACEUTICAL TECHNOLOGY	63
P061	NSHM KNOWLEDGE CAMPUS, DURGAPUR GROUP OF INSTITUTIONS	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	63
P061	NSHM KNOWLEDGE CAMPUS, DURGAPUR GROUP OF INSTITUTIONS	114	CIV	CIVIL ENGINEERING	60
P061	NSHM KNOWLEDGE CAMPUS, DURGAPUR GROUP OF INSTITUTIONS	121	ELE	ELECTRICAL ENGINEERING	60
P061	NSHM KNOWLEDGE CAMPUS, DURGAPUR GROUP OF INSTITUTIONS	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	63
P061	NSHM KNOWLEDGE CAMPUS, DURGAPUR GROUP OF INSTITUTIONS	120	EEE	ELECTRICAL & ELECTRONICS ENGINEERING	30
P061	NSHM KNOWLEDGE CAMPUS, DURGAPUR GROUP OF INSTITUTIONS	132	MEC	MECHANICAL ENGINEERING	63
P062	NSHM KNOWLEDGE CAMPUS, KOLKATA GROUP OF INSTITUTIONS	107	PHE	B.PHARM/PHARMACEUTICAL TECHNOLOGY	114
P063	OM DAYAL GROUP OF INSTITUTIONS,ULUBERIA,HOWRAH	104	ARC	ARCHITECTURE	38
P063	OM DAYAL GROUP OF INSTITUTIONS,ULUBERIA,HOWRAH	106	AID	B.ARCH (GENERAL)	38
P063	OM DAYAL GROUP OF INSTITUTIONS,ULUBERIA,HOWRAH	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	57
P063	OM DAYAL GROUP OF INSTITUTIONS,ULUBERIA,HOWRAH	114	CIV	CIVIL ENGINEERING	27
P063	OM DAYAL GROUP OF INSTITUTIONS,ULUBERIA,HOWRAH	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	27
P063	OM DAYAL GROUP OF INSTITUTIONS,ULUBERIA,HOWRAH	132	MEC	MECHANICAL ENGINEERING	27
P064	PAILAN COLLEGE OF MANAGEMENT & TECHNOLOGY,PAILAN PARK	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	63
P064	PAILAN COLLEGE OF MANAGEMENT & TECHNOLOGY,PAILAN PARK	114	CIV	CIVIL ENGINEERING	60
P064	PAILAN COLLEGE OF MANAGEMENT & TECHNOLOGY,PAILAN PARK	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	63

P064	PAILAN COLLEGE OF MANAGEMENT & TECHNOLOGY,PAILAN PARK	120	EEE	ELECTRICAL & ELECTRONICS ENGINEERING	60
P065	RCC INSTITUTE OF INFORMATION TECHNOLOGY,KOLKATA	103	EIE	APPLIED ELECTRONICS & INSTRUMENTATION ENGINEERING/ ELECTRONICS & INSTRUMENTATION ENGINEERING	63
P065	RCC INSTITUTE OF INFORMATION TECHNOLOGY,KOLKATA	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	126
P065	RCC INSTITUTE OF INFORMATION TECHNOLOGY,KOLKATA	121	ELE	ELECTRICAL ENGINEERING	63
P065	RCC INSTITUTE OF INFORMATION TECHNOLOGY,KOLKATA	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	126
P065	RCC INSTITUTE OF INFORMATION TECHNOLOGY,KOLKATA	126	INT	INFORMATION TECHNOLOGY	126
P066	REGENT EDUCATION AND RESEARCH FOUNDATION,BARASAT,KOLKATA	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	57
P066	REGENT EDUCATION AND RESEARCH FOUNDATION,BARASAT,KOLKATA	114	CIV	CIVIL ENGINEERING	114
P066	REGENT EDUCATION AND RESEARCH FOUNDATION,BARASAT,KOLKATA	121	ELE	ELECTRICAL ENGINEERING	57
P066	REGENT EDUCATION AND RESEARCH FOUNDATION,BARASAT,KOLKATA	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	57
P066	REGENT EDUCATION AND RESEARCH FOUNDATION,BARASAT,KOLKATA	120	EEE	ELECTRICAL & ELECTRONICS ENGINEERING	54
P066	REGENT EDUCATION AND RESEARCH FOUNDATION,BARASAT,KOLKATA	132	MEC	MECHANICAL ENGINEERING	57
P067	SANAKA EDUCATION TRUSTS GROUP OF INSTITUTIONS,DURGAPUR,BURDWAN	104	ARC	ARCHITECTURE	20
P067	SANAKA EDUCATION TRUSTS GROUP OF INSTITUTIONS,DURGAPUR,BURDWAN	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	60
P067	SANAKA EDUCATION TRUSTS GROUP OF INSTITUTIONS,DURGAPUR,BURDWAN	114	CIV	CIVIL ENGINEERING	60
P067	SANAKA EDUCATION TRUSTS GROUP OF INSTITUTIONS,DURGAPUR,BURDWAN	121	ELE	ELECTRICAL ENGINEERING	60
P067	SANAKA EDUCATION TRUSTS GROUP OF INSTITUTIONS,DURGAPUR,BURDWAN	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	60
P067	SANAKA EDUCATION TRUSTS GROUP OF INSTITUTIONS,DURGAPUR,BURDWAN	120	EEE	ELECTRICAL & ELECTRONICS ENGINEERING	60
P067	SANAKA EDUCATION TRUSTS GROUP OF INSTITUTIONS,DURGAPUR,BURDWAN	132	MEC	MECHANICAL ENGINEERING	60
P068	SAROJ MOHAN INSTITUTE OF TECHNOLOGY,GUPTIPARA,HOOGHLY	114	CIV	CIVIL ENGINEERING	63
P068	SAROJ MOHAN INSTITUTE OF TECHNOLOGY,GUPTIPARA,HOOGHLY	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	95
P068	SAROJ MOHAN INSTITUTE OF TECHNOLOGY,GUPTIPARA,HOOGHLY	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	95
P068	SAROJ MOHAN INSTITUTE OF TECHNOLOGY,GUPTIPARA,HOOGHLY	103	EIE	APPLIED ELECTRONICS & INSTRUMENTATION ENGINEERING/ ELECTRONICS & INSTRUMENTATION ENGINEERING	30
P068	SAROJ MOHAN INSTITUTE OF TECHNOLOGY,GUPTIPARA,HOOGHLY	121	ELE	ELECTRICAL ENGINEERING	63
P068	SAROJ MOHAN INSTITUTE OF TECHNOLOGY,GUPTIPARA,HOOGHLY	126	INT	INFORMATION TECHNOLOGY	30

P068	SAROJ MOHAN INSTITUTE OF TECHNOLOGY, GUPTIPARA, HOOGHLY	132	MEC	MECHANICAL ENGINEERING	63
P070	SEACOM ENGINEERING COLLEGE, SANKRAIL, HOWRAH	114	CIV	CIVIL ENGINEERING	60
P070	SEACOM ENGINEERING COLLEGE, SANKRAIL, HOWRAH	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	63
P070	SEACOM ENGINEERING COLLEGE, SANKRAIL, HOWRAH	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	90
P070	SEACOM ENGINEERING COLLEGE, SANKRAIL, HOWRAH	121	ELE	ELECTRICAL ENGINEERING	60
P070	SEACOM ENGINEERING COLLEGE, SANKRAIL, HOWRAH	126	INT	INFORMATION TECHNOLOGY	60
P070	SEACOM ENGINEERING COLLEGE, SANKRAIL, HOWRAH	132	MEC	MECHANICAL ENGINEERING	90
P070	SEACOM ENGINEERING COLLEGE, SANKRAIL, HOWRAH	131	MRE	MARINE ENGINEERING/MARINE TECHNOLOGY	60
P071	SILIGURI INSTITUTE OF TECHNOLOGY, SILIGURI	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	95
P071	SILIGURI INSTITUTE OF TECHNOLOGY, SILIGURI	114	CIV	CIVIL ENGINEERING	63
P071	SILIGURI INSTITUTE OF TECHNOLOGY, SILIGURI	121	ELE	ELECTRICAL ENGINEERING	126
P071	SILIGURI INSTITUTE OF TECHNOLOGY, SILIGURI	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	95
P071	SILIGURI INSTITUTE OF TECHNOLOGY, SILIGURI	126	INT	INFORMATION TECHNOLOGY	63
P072	ST. MARY'S TECHNICAL CAMPUS, KOLKATA	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	60
P072	ST. MARY'S TECHNICAL CAMPUS, KOLKATA	120	EEE	ELECTRICAL & ELECTRONICS ENGINEERING	32
P072	ST. MARY'S TECHNICAL CAMPUS, KOLKATA	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	30
P072	ST. MARY'S TECHNICAL CAMPUS, KOLKATA	132	MEC	MECHANICAL ENGINEERING	95
P072	ST. MARY'S TECHNICAL CAMPUS, KOLKATA	114	CIV	CIVIL ENGINEERING	60
P073	ST. THOMAS COLLEGE OF ENGINEERING & TECHNOLOGY, KHIDIRPUR, KOLKATA	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	57
P073	ST. THOMAS COLLEGE OF ENGINEERING & TECHNOLOGY, KHIDIRPUR, KOLKATA	121	ELE	ELECTRICAL ENGINEERING	57
P073	ST. THOMAS COLLEGE OF ENGINEERING & TECHNOLOGY, KHIDIRPUR, KOLKATA	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	57
P073	ST. THOMAS COLLEGE OF ENGINEERING & TECHNOLOGY, KHIDIRPUR, KOLKATA	126	INT	INFORMATION TECHNOLOGY	57
P074	SUPREME KNOWLEDGE FOUNDATION GROUP OF INSTITUTIONS, MANKUNDU, HOOGHLY	114	CIV	CIVIL ENGINEERING	60
P074	SUPREME KNOWLEDGE FOUNDATION GROUP OF INSTITUTIONS, MANKUNDU, HOOGHLY	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	126
P074	SUPREME KNOWLEDGE FOUNDATION GROUP OF INSTITUTIONS, MANKUNDU, HOOGHLY	121	ELE	ELECTRICAL ENGINEERING	60

P074	SUPREME KNOWLEDGE FOUNDATION GROUP OF INSTITUTIONS,MANKUNDU,HOOGLY	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	120
P074	SUPREME KNOWLEDGE FOUNDATION GROUP OF INSTITUTIONS,MANKUNDU,HOOGLY	132	MEC	MECHANICAL ENGINEERING	60
P075	SURENDRA INSTITUTE OF ENGINEERING & MANAGEMENT,SILIGURI	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	63
P075	SURENDRA INSTITUTE OF ENGINEERING & MANAGEMENT,SILIGURI	114	CIV	CIVIL ENGINEERING	63
P075	SURENDRA INSTITUTE OF ENGINEERING & MANAGEMENT,SILIGURI	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	60
P075	SURENDRA INSTITUTE OF ENGINEERING & MANAGEMENT,SILIGURI	121	ELE	ELECTRICAL ENGINEERING	60
P075	SURENDRA INSTITUTE OF ENGINEERING & MANAGEMENT,SILIGURI	132	MEC	MECHANICAL ENGINEERING	63
P076	SWAMI VIVEKANANDA INSTITUTE OF SCIENCE & TECHNOLOGY,SONARPUR	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	57
P076	SWAMI VIVEKANANDA INSTITUTE OF SCIENCE & TECHNOLOGY,SONARPUR	114	CIV	CIVIL ENGINEERING	57
P076	SWAMI VIVEKANANDA INSTITUTE OF SCIENCE & TECHNOLOGY,SONARPUR	120	EEE	ELECTRICAL & ELECTRONICS ENGINEERING	57
P076	SWAMI VIVEKANANDA INSTITUTE OF SCIENCE & TECHNOLOGY,SONARPUR	123	ECI	ELECTRONICS & COMMUNICATION ENGINEERING (INDUSTRY INTEGRATED)	86
P076	SWAMI VIVEKANANDA INSTITUTE OF SCIENCE & TECHNOLOGY,SONARPUR	132	MEC	MECHANICAL ENGINEERING	114
P077	TECHNO INDIA - BATANAGAR	114	CIV	CIVIL ENGINEERING	60
P077	TECHNO INDIA - BATANAGAR	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	63
P077	TECHNO INDIA - BATANAGAR	121	ELE	ELECTRICAL ENGINEERING	63
P077	TECHNO INDIA - BATANAGAR	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	63
P077	TECHNO INDIA - BATANAGAR	132	MEC	MECHANICAL ENGINEERING	63
P078	TECHNO INDIA COLLEGE OF TECHNOLOGY,RAJARHAT,NEW TOWN	103	EIE	APPLIED ELECTRONICS & INSTRUMENTATION ENGINEERING/ ELECTRONICS & INSTRUMENTATION ENGINEERING	63
P078	TECHNO INDIA COLLEGE OF TECHNOLOGY,RAJARHAT,NEW TOWN	114	CIV	CIVIL ENGINEERING	120
P078	TECHNO INDIA COLLEGE OF TECHNOLOGY,RAJARHAT,NEW TOWN	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	86
P078	TECHNO INDIA COLLEGE OF TECHNOLOGY,RAJARHAT,NEW TOWN	121	ELE	ELECTRICAL ENGINEERING	120
P078	TECHNO INDIA COLLEGE OF TECHNOLOGY,RAJARHAT,NEW TOWN	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	86
P078	TECHNO INDIA COLLEGE OF TECHNOLOGY,RAJARHAT,NEW TOWN	126	INT	INFORMATION TECHNOLOGY	57
P078	TECHNO INDIA COLLEGE OF TECHNOLOGY,RAJARHAT,NEW TOWN	132	MEC	MECHANICAL ENGINEERING	120
P079	TECHNO INDIA-BALURGHAT,BALURGHAT, SOUTH DINAJPUR	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	60

P079	TECHNO INDIA-BALURGHAT,BALURGHAT, SOUTH DINAJPUR	114	CIV	CIVIL ENGINEERING	60
P079	TECHNO INDIA-BALURGHAT,BALURGHAT, SOUTH DINAJPUR	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	60
P079	TECHNO INDIA-BALURGHAT,BALURGHAT, SOUTH DINAJPUR	121	ELE	ELECTRICAL ENGINEERING	60
P079	TECHNO INDIA-BALURGHAT,BALURGHAT, SOUTH DINAJPUR	126	INT	INFORMATION TECHNOLOGY	60
P080	TECHNO INDIA-BANIPUR,24 PARGANAS- NORTH	103	EIE	APPLIED ELECTRONICS & INSTRUMENTATION ENGINEERING/ ELECTRONICS & INSTRUMENTATION ENGINEERING	60
P080	TECHNO INDIA-BANIPUR,24 PARGANAS- NORTH	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	63
P080	TECHNO INDIA-BANIPUR,24 PARGANAS- NORTH	120	EEE	ELECTRICAL & ELECTRONICS ENGINEERING	60
P080	TECHNO INDIA-BANIPUR,24 PARGANAS- NORTH	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	126
P080	TECHNO INDIA-BANIPUR,24 PARGANAS- NORTH	126	INT	INFORMATION TECHNOLOGY	63
P080	TECHNO INDIA-BANIPUR,24 PARGANAS- NORTH	132	MEC	MECHANICAL ENGINEERING	63
P081	TECHNO INDIA-DURGAPUR,KANKSA, PANAGAR	114	CIV	CIVIL ENGINEERING	60
P081	TECHNO INDIA-DURGAPUR,KANKSA, PANAGAR	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	60
P081	TECHNO INDIA-DURGAPUR,KANKSA, PANAGAR	121	ELE	ELECTRICAL ENGINEERING	60
P081	TECHNO INDIA-DURGAPUR,KANKSA, PANAGAR	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	60
P081	TECHNO INDIA-DURGAPUR,KANKSA, PANAGAR	126	INT	INFORMATION TECHNOLOGY	60
P081	TECHNO INDIA-DURGAPUR,KANKSA, PANAGAR	132	MEC	MECHANICAL ENGINEERING	60
P082	TECHNO INDIA-SALT LAKE,SECTOR-V,SALT LAKE	103	EIE	APPLIED ELECTRONICS & INSTRUMENTATION ENGINEERING/ ELECTRONICS & INSTRUMENTATION ENGINEERING	63
P082	TECHNO INDIA-SALT LAKE,SECTOR-V,SALT LAKE	114	CIV	CIVIL ENGINEERING	114
P082	TECHNO INDIA-SALT LAKE,SECTOR-V,SALT LAKE	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	114
P082	TECHNO INDIA-SALT LAKE,SECTOR-V,SALT LAKE	121	ELE	ELECTRICAL ENGINEERING	114
P082	TECHNO INDIA-SALT LAKE,SECTOR-V,SALT LAKE	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	114
P082	TECHNO INDIA-SALT LAKE,SECTOR-V,SALT LAKE	124	FET	FOOD TECHNOLOGY	63
P082	TECHNO INDIA-SALT LAKE,SECTOR-V,SALT LAKE	126	INT	INFORMATION TECHNOLOGY	114
P082	TECHNO INDIA-SALT LAKE,SECTOR-V,SALT LAKE	132	MEC	MECHANICAL ENGINEERING	114
G001	COOCH BEHAR GOVERNMENT ENGINEERING COLLEGE, COOCH BEHAR	114	CIV	CIVIL ENGINEERING	63

G001	COOCH BEHAR GOVERNMENT ENGINEERING COLLEGE, COOCH BEHAR	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	63
G001	COOCH BEHAR GOVERNMENT ENGINEERING COLLEGE, COOCH BEHAR	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	63
G001	COOCH BEHAR GOVERNMENT ENGINEERING COLLEGE, COOCH BEHAR	121	ELE	ELECTRICAL ENGINEERING	63
G001	COOCH BEHAR GOVERNMENT ENGINEERING COLLEGE, COOCH BEHAR	132	MEC	MECHANICAL ENGINEERING	63
G002	GOVERNMENT COLLEGE OF ENGINEERING AND LEATHER TECHNOLOGY,KOLKATA	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	56
G002	GOVERNMENT COLLEGE OF ENGINEERING AND LEATHER TECHNOLOGY,KOLKATA	126	INT	INFORMATION TECHNOLOGY	42
G002	GOVERNMENT COLLEGE OF ENGINEERING AND LEATHER TECHNOLOGY,KOLKATA	130	LET	LEATHER TECHNOLOGY	32
G003	GOVT. COLLEGE OF ENGG. & TEXTILE TECHNOLOGY, BERHAMPORE	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	46
G003	GOVT. COLLEGE OF ENGG. & TEXTILE TECHNOLOGY, BERHAMPORE	121	ELE	ELECTRICAL ENGINEERING	32
G003	GOVT. COLLEGE OF ENGG. & TEXTILE TECHNOLOGY, BERHAMPORE	132	MEC	MECHANICAL ENGINEERING	32
G003	GOVT. COLLEGE OF ENGG. & TEXTILE TECHNOLOGY, BERHAMPORE	144	TEX	TEXTILE TECHNOLOGY	46
G004	GOVT. COLLEGE OF ENGINEERING & CERAMIC TECHNOLOGY,KOLKATA	110	CRM	CERAMIC ENGINEERING AND TECHNOLOGY	42
G004	GOVT. COLLEGE OF ENGINEERING & CERAMIC TECHNOLOGY,KOLKATA	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	42
G004	GOVT. COLLEGE OF ENGINEERING & CERAMIC TECHNOLOGY,KOLKATA	126	INT	INFORMATION TECHNOLOGY	42
G005	GOVT. COLLEGE OF ENGINEERING & TEXTILE TECHNOLOGY, SERAMPORE	102	APM	APPAREL & PRODUCTION MANAGEMENT	38
G005	GOVT. COLLEGE OF ENGINEERING & TEXTILE TECHNOLOGY, SERAMPORE	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	38
G005	GOVT. COLLEGE OF ENGINEERING & TEXTILE TECHNOLOGY, SERAMPORE	126	INT	INFORMATION TECHNOLOGY	38
G005	GOVT. COLLEGE OF ENGINEERING & TEXTILE TECHNOLOGY, SERAMPORE	144	TEX	TEXTILE TECHNOLOGY	38
G006	INSTITUTE OF PHARMACY, JALPAIGURI	107	PHE	B.PHARM/PHARMACEUTICAL TECHNOLOGY	63
G007	JALPAIGURI GOVERNMENT ENGINEERING COLLEGE,JALPAIGURI	114	CIV	CIVIL ENGINEERING	63
G007	JALPAIGURI GOVERNMENT ENGINEERING COLLEGE,JALPAIGURI	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	63
G007	JALPAIGURI GOVERNMENT ENGINEERING COLLEGE,JALPAIGURI	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	63
G007	JALPAIGURI GOVERNMENT ENGINEERING COLLEGE,JALPAIGURI	121	ELE	ELECTRICAL ENGINEERING	63
G007	JALPAIGURI GOVERNMENT ENGINEERING COLLEGE,JALPAIGURI	126	INT	INFORMATION TECHNOLOGY	63
G007	JALPAIGURI GOVERNMENT ENGINEERING COLLEGE,JALPAIGURI	132	MEC	MECHANICAL ENGINEERING	63
G008	KALYANI GOVERNMENT ENGINEERING COLLEGE,KALYANI,NADIA	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	63

G008	KALYANI GOVERNMENT ENGINEERING COLLEGE, KALYANI, NADIA	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	63
G008	KALYANI GOVERNMENT ENGINEERING COLLEGE, KALYANI, NADIA	121	ELE	ELECTRICAL ENGINEERING	63
G008	KALYANI GOVERNMENT ENGINEERING COLLEGE, KALYANI, NADIA	126	INT	INFORMATION TECHNOLOGY	63
G008	KALYANI GOVERNMENT ENGINEERING COLLEGE, KALYANI, NADIA	132	MEC	MECHANICAL ENGINEERING	63
G009	PURULIA GOVERNMENT ENGINEERING COLLEGE, PURULIA	114	CIV	CIVIL ENGINEERING	63
G009	PURULIA GOVERNMENT ENGINEERING COLLEGE, PURULIA	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	63
G009	PURULIA GOVERNMENT ENGINEERING COLLEGE, PURULIA	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	63
G009	PURULIA GOVERNMENT ENGINEERING COLLEGE, PURULIA	121	ELE	ELECTRICAL ENGINEERING	63
G009	PURULIA GOVERNMENT ENGINEERING COLLEGE, PURULIA	132	MEC	MECHANICAL ENGINEERING	63
U001	BIDHAN CHANDRA KRISHI VISWA VIDYALAYA	101	AGR	AGRICULTURAL ENGINEERING	27
U002	DEPARTMENT OF JUTE AND FIBRE TECHNOLOGY, CALCUTTA UNIVERSITY	129	JFT	JUTE & FIBRE TECHNOLOGY	63
U003	JADAVPUR UNIVERSITY	104	ARC	ARCHITECTURE	40
U003	JADAVPUR UNIVERSITY	111	CHE	CHEMICAL ENGINEERING	105
U003	JADAVPUR UNIVERSITY	114	CIV	CIVIL ENGINEERING	134
U003	JADAVPUR UNIVERSITY	118	COE	CONSTRUCTION ENGINEERING	46
U003	JADAVPUR UNIVERSITY	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	81
U003	JADAVPUR UNIVERSITY	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	81
U003	JADAVPUR UNIVERSITY	121	ELE	ELECTRICAL ENGINEERING	135
U003	JADAVPUR UNIVERSITY	125	FTB	FOOD TECHNOLOGY AND BIO CHEMICAL ENGINEERING	39
U003	JADAVPUR UNIVERSITY	128	IEE	INSTRUMENTATION ENGINEERING/INSTRUMENTATION & ELECTRONICS ENGINEERING	52
U003	JADAVPUR UNIVERSITY	126	INT	INFORMATION TECHNOLOGY	79
U003	JADAVPUR UNIVERSITY	132	MEC	MECHANICAL ENGINEERING	135
U003	JADAVPUR UNIVERSITY	135	MTE	METALLURGICAL ENGINEERING	40
U003	JADAVPUR UNIVERSITY	107	PHE	B. PHARM/PHARMACEUTICAL TECHNOLOGY	77
U003	JADAVPUR UNIVERSITY	139	PWE	POWER ENGINEERING/POWER PLANT ENGINEERING	52
U003	JADAVPUR UNIVERSITY	140	PNT	PRINTING ENGINEERING/PRINTING TECHNOLOGY	35
U003	JADAVPUR UNIVERSITY	141	PRO	PRODUCTION ENGINEERING	52
U004	MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	40

U004	MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL	126	INT	INFORMATION TECHNOLOGY	40
U005	UNIVERSITY INSTITUTE OF TECHNOLOGY, BURDWAN (SELF FINANCING COURSE)	114	CIV	CIVIL ENGINEERING	63
U005	UNIVERSITY INSTITUTE OF TECHNOLOGY, BURDWAN (SELF FINANCING COURSE)	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	63
U005	UNIVERSITY INSTITUTE OF TECHNOLOGY, BURDWAN (SELF FINANCING COURSE)	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	63
U005	UNIVERSITY INSTITUTE OF TECHNOLOGY, BURDWAN (SELF FINANCING COURSE)	103	EIE	APPLIED ELECTRONICS & INSTRUMENTATION ENGINEERING/ ELECTRONICS & INSTRUMENTATION ENGINEERING	63
U005	UNIVERSITY INSTITUTE OF TECHNOLOGY, BURDWAN (SELF FINANCING COURSE)	121	ELE	ELECTRICAL ENGINEERING	63
U005	UNIVERSITY INSTITUTE OF TECHNOLOGY, BURDWAN (SELF FINANCING COURSE)	126	INT	INFORMATION TECHNOLOGY	63
U006	UNIVERSITY OF CALCUTTA	111	CHE	CHEMICAL ENGINEERING	24
U006	UNIVERSITY OF CALCUTTA	112	CHT	CHEMICAL TECHNOLOGY	24
U006	UNIVERSITY OF CALCUTTA	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	24
U006	UNIVERSITY OF CALCUTTA	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	27
U006	UNIVERSITY OF CALCUTTA	121	ELE	ELECTRICAL ENGINEERING	13
U006	UNIVERSITY OF CALCUTTA	128	IEE	INSTRUMENTATION ENGINEERING/INSTRUMENTATION & ELECTRONICS ENGINEERING	13
U006	UNIVERSITY OF CALCUTTA	126	INT	INFORMATION TECHNOLOGY	13
U006	UNIVERSITY OF CALCUTTA	136	OPE	OPTICS & OPTOELECTRONICS	10
U006	UNIVERSITY OF CALCUTTA	137	PST	POLYMER SCIENCE & TECHNOLOGY	18
U007	UNIVERSITY OF KALYANI, SCIENCE INSTRUMENTATION CENTRE	103	EIE	APPLIED ELECTRONICS & INSTRUMENTATION ENGINEERING/ ELECTRONICS & INSTRUMENTATION ENGINEERING	31
U007	UNIVERSITY OF KALYANI, SCIENCE INSTRUMENTATION CENTRE	126	INT	INFORMATION TECHNOLOGY	31
U008	UTTAR BANGA KRISHI VISWA VIDYALAYA	101	AGR	AGRICULTURAL ENGINEERING	18
U009	WEST BENGAL UNIVERSITY OF ANIMAL & FISHERY SCIENCES	119	DAT	DAIRY TECHNOLOGY	37
PU01	ADAMAS UNIVERSITY - SELF FINANCING PRIVATE UNIVERSITY - AICTE APPROVAL NOT MANDATORY	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	120
PU01	ADAMAS UNIVERSITY - SELF FINANCING PRIVATE UNIVERSITY - AICTE APPROVAL NOT MANDATORY	132	MEC	MECHANICAL ENGINEERING	60
PU01	ADAMAS UNIVERSITY - SELF FINANCING PRIVATE UNIVERSITY - AICTE APPROVAL NOT MANDATORY	121	ELE	ELECTRICAL ENGINEERING	30
PU01	ADAMAS UNIVERSITY - SELF FINANCING PRIVATE UNIVERSITY - AICTE APPROVAL NOT MANDATORY	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	60
PU01	ADAMAS UNIVERSITY - SELF FINANCING	114	CIV	CIVIL ENGINEERING	60

	PRIVATE UNIVERSITY - AICTE APPROVAL NOT MANDATORY				
PU01	ADAMAS UNIVERSITY - SELF FINANCING PRIVATE UNIVERSITY - AICTE APPROVAL NOT MANDATORY	109	BOT	BIOTECHNOLOGY	15
PU01	ADAMAS UNIVERSITY - SELF FINANCING PRIVATE UNIVERSITY - AICTE APPROVAL NOT MANDATORY	107	PHE	B.PHARM/PHARMACEUTICAL TECHNOLOGY	60
PU02	SCHOOL OF PHARMACY, TECHNO INDIA UNIVERSITY -SELF FINANCING PRIVATE UNIVERSITY-AICTE APPROVAL NOT MANDATORY	107	PHE	B.PHARM/PHARMACEUTICAL TECHNOLOGY	60
PU03	TECHNO INDIA UNIVERSITY - SELF FINANCING PRIVATE UNIVERSITY-AICTE APPROVED COURSES	132	MEC	MECHANICAL ENGINEERING	57
PU03	TECHNO INDIA UNIVERSITY - SELF FINANCING PRIVATE UNIVERSITY-AICTE APPROVED COURSES	114	CIV	CIVIL ENGINEERING	57
PU03	TECHNO INDIA UNIVERSITY - SELF FINANCING PRIVATE UNIVERSITY-AICTE APPROVED COURSES	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	57
PU03	TECHNO INDIA UNIVERSITY - SELF FINANCING PRIVATE UNIVERSITY-AICTE APPROVED COURSES	121	ELE	ELECTRICAL ENGINEERING	57
PU03	TECHNO INDIA UNIVERSITY - SELF FINANCING PRIVATE UNIVERSITY-AICTE APPROVED COURSES	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING	57
PU04	THE NEOTIA UNIVERSITY -SELF FINANCING PRIVATE UNIVERSITY -- AICTE APPROVAL NOT MANDATORY	131	MRE	MARINE ENGINEERING/MARINE TECHNOLOGY	40
PU04	THE NEOTIA UNIVERSITY -SELF FINANCING PRIVATE UNIVERSITY -- AICTE APPROVAL NOT MANDATORY	142	RMT	ROBOTIC ENGINEERING	30
PU04	THE NEOTIA UNIVERSITY -SELF FINANCING PRIVATE UNIVERSITY -- AICTE APPROVAL NOT MANDATORY	138	ENE	ENERGY ENGINEERING	30
PU04	THE NEOTIA UNIVERSITY -SELF FINANCING PRIVATE UNIVERSITY -- AICTE APPROVAL NOT MANDATORY	134	MEA	MECHANICAL ENGINEERING (AUTOMOBILE MANUFACTURING)	30
PU04	THE NEOTIA UNIVERSITY -SELF FINANCING PRIVATE UNIVERSITY -- AICTE APPROVAL NOT MANDATORY	115	CSS	COMPUTER SCIENCE & ENGINEERING (CYBER SECURITY)	30
PU04	THE NEOTIA UNIVERSITY -SELF FINANCING PRIVATE UNIVERSITY -- AICTE APPROVAL NOT MANDATORY	116	CSD	COMPUTER SCIENCE & ENGINEERING (DATA ANALYSIS)	30
PU05	BRAINWARE UNIVERSITY - AICTE APPROVAL NOT MANDATORY	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY	63

APPENDIX -6

List of branches in 2017.

Revised list of 2018 will be published during counselling for 2018

S.No.	Branch Code	Acronym	Branch Name
1.	101	AGR	AGRICULTURAL ENGINEERING
2.	102	APM	APPAREL & PRODUCTION MANAGEMENT
3.	103	EIE	APPLIED ELECTRONICS & INSTRUMENTATION ENGINEERING/ ELECTRONICS & INSTRUMENTATION ENGINEERING
4.	104	ARC	ARCHITECTURE
5.	105	ATE	AUTOMOBILE ENGINEERING
6.	106	AID	B.ARCH (GENERAL)
7.	107	PHE	B.PHARM/PHARMACEUTICAL TECHNOLOGY
8.	108	BMD	BIOMEDICAL ENGINEERING
9.	109	BOT	BIOTECHNOLOGY
10.	110	CRM	CERAMIC ENGINEERING AND TECHNOLOGY
11.	111	CHE	CHEMICAL ENGINEERING
12.	112	CHT	CHEMICAL TECHNOLOGY
13.	113	CVE	CIVIL AND ENVIRONMENTAL ENGINEERING
14.	114	CIV	CIVIL ENGINEERING
15.	115	CSS	COMPUTER SCIENCE & ENGINEERING (CYBER SECURITY)
16.	116	CSD	COMPUTER SCIENCE & ENGINEERING (DATA ANALYSIS)
17.	117	CSE	COMPUTER SCIENCE & ENGINEERING/COMPUTER SCIENCE & TECHNOLOGY
18.	118	COE	CONSTRUCTION ENGINEERING
19.	119	DAT	DAIRY TECHNOLOGY
20.	120	EEE	ELECTRICAL & ELECTRONICS ENGINEERING
21.	121	ELE	ELECTRICAL ENGINEERING
22.	122	ECE	ELECTRONICS & COMMUNICATION ENGINEERING/ELECTRONICS & TELECOMMUNICATION ENGINEERING
23.	123	ECI	ELECTRONICS & COMMUNICATION ENGINEERING (INDUSTRY INTEGRATED)
24.	124	FET	FOOD TECHNOLOGY
25.	125	FTB	FOOD TECHNOLOGY AND BIO CHEMICAL ENGINEERING
26.	126	INT	INFORMATION TECHNOLOGY
27.	127	ICE	INSTRUMENTATION AND CONTROL ENGINEERING
28.	128	IEE	INSTRUMENTATION ENGINEERING/INSTRUMENTATION & ELECTRONICS ENGINEERING
29.	129	JFT	JUTE & FIBRE TECHNOLOGY
30.	130	LET	LEATHER TECHNOLOGY

31.	131	MRE	MARINE ENGINEERING/MARINE TECHNOLOGY
32.	132	MEC	MECHANICAL ENGINEERING
33.	134	MEA	MECHANICAL ENGINEERING (AUTOMOBILE MANUFACTURING)
34.	135	MTE	METALLURGICAL ENGINEERING
35.	136	OPE	OPTICS & OPTOELECTRONICS
36.	137	PST	POLYMER SCIENCE & TECHNOLOGY
37.	138	ENE	ENERGY ENGINEERING
38.	139	PWE	POWER ENGINEERING/POWER PLANT ENGINEERING
39.	140	PNT	PRINTING ENGINEERING/PRINTING TECHNOLOGY
40.	141	PRO	PRODUCTION ENGINEERING
41.	142	RMT	ROBOTIC ENGINEERING
42.	144	TEX	TEXTILE TECHNOLOGY

Syllabus for WBJEE-2018**APPENDIX: 7****MATHEMATICS:****Algebra**

A.P., G.P., H.P.: Definitions of A. P. and G.P.; General term; Summation of first n-terms of series $\sum n$, $\sum n^2$, $\sum n^3$; Arithmetic/Geometric series, A.M., G.M. and their relation; Infinite G.P. series and its sum.

Logarithms: Definition; General properties; Change of base.

Complex Numbers: Definition in terms of ordered pair of real numbers and properties of complex numbers; Complex conjugate; Triangle inequality; amplitude of complex numbers and its properties; Square root of complex numbers; Cube roots of unity; De Moivre's theorem (statement only) and its elementary applications. Solution of quadratic equation in complex number system.

Polynomial equation: nth degree equation has exactly n roots (statement only); Quadratic Equations: Quadratic equations with real coefficients; Relations between roots and coefficients; Nature of roots; Formation of a quadratic equation, sign and magnitude of the quadratic expression $ax^2 + bx + c$ (where a, b, c are rational numbers and $a \neq 0$).

Permutation and combination: Permutation of n different things taken r at a time ($r \leq n$). Permutation of n things not all different. Permutation with repetitions (circular permutation excluded). Combinations of n different things taken r at a time ($r \leq n$). Combination of n things not all different. Basic properties. Problems involving both permutations and combinations.

Principle of mathematical induction: Statement of the principle, proof by induction for the sum of squares, sum of cubes of first n natural numbers, divisibility properties like $2^{2n} - 1$ is divisible by 3 ($n \geq 1$), 7 divides $3^{2n+1} + 2^{n+2}$ ($n \geq 1$).

Binomial theorem (positive integral index): Statement of the theorem, general term, middle term, equidistant terms, properties of binomial coefficients.

Matrices: Concepts of $m \times n$ ($m \leq 3, n \leq 3$) real matrices, operations of addition, scalar multiplication and multiplication of matrices. Transpose of a matrix. Determinant of a square matrix. Properties of determinants (statement only). Minor, cofactor and adjoint of a matrix. Nonsingular matrix. Inverse of a matrix. Finding area of a triangle. Solutions of system of linear equations. (Not more than 3 variables).

Sets, Relations and Mappings: Idea of sets, subsets, power set, complement, union, intersection and difference of sets, Venn diagram, De Morgan's Laws, Inclusion / Exclusion formula for two or three finite sets, Cartesian product of sets.

Relation and its properties. Equivalence relation — definition and elementary examples, mappings, range and domain, injective, surjective and bijective mappings, composition of mappings, inverse of a mapping.

Statistics and Probability:

Measure of dispersion, mean, variance and standard deviation, frequency distribution. Addition and multiplication rules of probability, conditional probability and Bayes' Theorem, independence of events, repeated independent trials and Binomial distribution.

Trigonometry

Trigonometric functions, addition and subtraction formulae, formulae involving multiple and submultiple angles, general solution of trigonometric equations. Properties of triangles, inverse trigonometric functions and their properties.

Coordinate geometry of two dimensions

Distance formula, section formula, area of a triangle, condition of collinearity of three points in a plane. Polar co-ordinates, transformation from Cartesian to polar coordinates and vice versa. Parallel transformation of axes.

Concept of locus, locus problems involving all geometrical configurations,

Slope of a line. Equation of lines in different forms, angle between two lines. Condition of perpendicularity and parallelism of two lines. Distance of a point from a line. Distance between two parallel lines. Lines through the point of intersection of two lines. Angle bisector

Equation of a circle with a given center and radius. Condition that a general equation of second degree in x, y may represent a circle. Equation of a circle in terms of endpoints of a diameter. Equation of tangent, normal and chord. Parametric equation of a circle. Intersection of a line with a circle. Equation of common chord of two intersecting circles.

Definition of conic section, Directrix, Focus and Eccentricity, classification based on eccentricity. Equation of Parabola, Ellipse and Hyperbola in standard form, their foci, directrices, eccentricities and parametric equations.

Co-ordinate geometry of three dimensions

Direction cosines and direction ratios, distance between two points and section formula, equation of a straight line, equation of a plane, distance of a point from a plane.

Calculus

Differential calculus: Functions, domain and range set of functions, composition of two functions and inverse of a function, limit, continuity, derivative, chain rule and derivative of functions in various forms. Concept of differential.

Rolle's Theorem and Lagrange's Mean Value theorem (statement only). Their geometric interpretation and elementary application. L'Hospital's rule (statement only) and applications. Second order derivative.

Integral calculus: Integration as a reverse process of differentiation, indefinite integral of standard functions. Integration by parts. Integration by substitution and partial fraction.

Definite integral as a limit of a sum with equal subdivisions. Fundamental theorem of integral calculus and its applications. Properties of definite integrals.

Differential Equations: Formation of ordinary differential equations, solution of homogeneous differential equations, separation of variables method, linear first order differential equations.

Application of Calculus: Tangents and normals, conditions of tangency. Determination of monotonicity, maxima and minima. Differential coefficient as a measure of rate. Motion in a straight line with constant acceleration. Geometric interpretation of definite integral as area, calculation of area bounded by elementary curves and Straight lines. Area of the region included between two elementary curves.

Vectors: Addition of vectors, scalar multiplication, dot and cross products, scalar triple product.

PHYSICS:

Physical World, Measurements, Units & dimensions: Physical World, Measurements, Units & dimensions Units & Dimensions of physical quantities, dimensional analysis & its applications, error in measurements, significant figures.

Kinematics: Scalars & vectors, representation of vectors in 3D, dot & cross product & their applications, elementary differential & integral calculus, time-velocity & relevant graphs, equations of motion with uniform acceleration.

Laws of motion: Newton's laws of motion, using algebra & calculus, inertial & non inertial frames, conservation of linear momentum with applications, elastic & inelastic collisions, impulse centripetal force, banking of roads, relative velocity, projectile motion & uniform circular motion Work, power, energy: Work, power, energy Work, work-energy theorem, power, energy, work done by constant & variable forces, PE & KE, conservation of mechanical energy, conservative and nonconservative forces, PE of a spring,

Motion of centre of mass, connected systems, Friction: Centre of mass of two-particle system, motion of connected system, torque, equilibrium of rigid bodies, moments of inertia of simple geometric bodies (2D) [without derivation] conservation of angular momentum, friction and laws of friction.

Gravitation: Kepler's laws, (only statement) universal law of gravitation, acceleration due to gravity (g), variation of g , gravitational potential & PE, escape velocity, orbital velocity of satellites, geostationary orbits.

Bulk properties of matter: Elasticity, Hooke's law, Young's modulus, bulk modulus, shear, rigidity modulus, Poisson's ratio elastic potential energy. Fluid pressure: Pressure due to a fluid column, buoyancy, Pascal's law, effect of gravity on fluid pressure. Surface tension: Surface energy, phenomena involving surface tension, angle of contact, capillary rise,

Viscosity: Coefficient of viscosity, streamline & turbulent motion, Reynold's number, Stoke's law, terminal velocity, Bernoulli's theorem. Heat & Thermal Physics: Heat & temperature, thermal expansion of solids. liquids & gases, ideal gas laws, isothermal & adiabatic processes; anomalous expansion of water & its effects, sp. heat capacity, C_p , C_v , calorimetry; change of state, specific latent heat capacity. Heat transfer; conduction, thermal and thermometric conductivity, convection & radiation, Newton's law of cooling, Stefan's law.

Thermodynamics: Thermal equilibrium (Zeroth law of thermodynamics), heat, work & internal energy. 1st law of thermodynamics, isothermal & adiabatic processes, 2nd law of thermodynamics, reversible & irreversible processes.

Kinetic theory of gases: Equation of state of a perfect gas, kinetic theory of gases, assumptions in Kinetic theory of gases, concept of pressure. & temperature; rms speed of gas molecules; degrees of freedom, law of equipartition of energy (introductory ideas) & application to specific heats of gases; mean free path, Avogadro number.

Oscillations & Waves: Periodic motion – time period, frequency, time-displacement equation, Simple harmonic motion (S.H.M) & its equation; phase; SHM in different systems, restoring force & force constant, energy in S.H.M.- KE & PE, free, forced & damped oscillations (introductory ideas), resonance wave motion, equation for progressive wave, longitudinal & transverse waves, sound waves, Newton's formula & Laplace's correction, factors affecting the velocity of sound in air, principles of superposition of waves, reflection of waves, standing waves in strings & organ pipes, fundamental mode, harmonics & overtones, beats, Doppler effect.

Electrostatics: Conservation of electric charges, Coulomb's law-force between two point charges, forces between multiple charges; superposition principle & continuous charge distribution. Electric field, & potential due to a point charge & distribution of charges, electric field lines electric field due to a dipole; torque on a dipole in uniform electric field; electric flux, Gauss' theorem & its simple applications, conductors & insulators, free charges & bound charges inside a conductor; dielectrics & electric polarisation, capacitors & capacitance, combination of capacitors in series & in parallel, capacitance of a parallel plate capacitor with & without dielectric medium between the plates, energy stored in a capacitor.

Current Electricity:

Electric current, & conductor, drift velocity' mobility & their relation with electric current; Ohm's law, electrical resistance, Ohmic and non-Ohmic conductors, electrical energy & power, carbon resistors, colour codes, combination of resistances, temperature dependence of resistances, electric cell, emf and internal resistance of an electric cell, pd, combination of cells, secondary cells, (introductory) Kirchhoff's laws of electrical network, simple applications, principle of Wheatstone bridge, metre bridge and potentiometer and their uses, thermoelectricity; Seebeck effect; Peltier effect, thermo emf.

Magnetic effect of current: Concept of magnetic field, Oersted's experiment, Biot - Savart law & its application to current carrying circular loop; Ampere's law & its applications to infinitely long straight wire, straight and toroidal solenoids; force on a moving charge in uniform magnetic & electric fields, cyclotron frequency; force on a current-carrying conductor in a uniform magnetic field, force between two parallel current-carrying conductors-- definition of ampere. Torque experienced by a current loop in a uniform magnetic field; moving coil galvanometer-its current sensitivity & conversion to ammeter & voltmeter, Inter-conversion of voltmeter & ammeter & change of their ranges.

Magnetics: Current loop as a magnetic dipole & its magnetic dipole moment, magnetic dipole moment of a revolving electron, magnetic field intensity due to a magnetic dipole bar magnet along its axis & perpendicular to its axis, torque on a magnetic dipole (bar magnet) in a uniform magnetic field; magnet as an equivalent solenoid, magnetic field lines; Earth's magnetic field & its magnetic elements. para-, dia- & ferro- magnetic substances, with examples. Electromagnets & the factors affecting their strengths, permanent magnets.

Electromagnetic induction & alternating current: Electromagnetic induction; Faraday's laws, induced emf & current; Lenz's Law, eddy currents, self & mutual induction, alternating currents, peak and rms value of alternating current and voltage; reactance and impedance; LR & CR circuits, phase lag & lead, LCR series circuit, resonance; power in AC circuits, wattless current.

Electromagnetic waves: Electromagnetic waves and their characteristics (qualitative ideas only), transverse nature of electromagnetic waves, electromagnetic spectrum, applications of the waves from the different parts of the spectrum

Optics I (Ray optics): Reflection of light, spherical mirrors, mirror formula. Refraction of light, total internal reflection & its applications, optical fibres, refraction at spherical surfaces, lenses, thin lens formula, lensmaker's formula. Newton's relation: Displacement method to find position of images (conjugate points) Magnification, power of a lens, combination of thin lenses in contact, combination of a lens & a mirror refraction and dispersion of light through a prism; optical instruments, human eye, image formation & accommodation, correction of eye defects (myopia, hypermetropia) using lenses, microscopes & astronomical telescopes (reflecting & refracting) & their magnifying powers.

Optics II (Wave Optics): Scattering of light - blue colour of the sky, elementary idea of Raman effect; wave optics: wave front & Huygens' principle, reflection & refraction of plane wave at a plane surface using wave fronts. Proof of laws of reflection & refraction using Huygens' principle Interference, Young's double slit experiment & expression for fringe width, coherent sources, Fraunhofer diffraction due to a single slit,

Particle nature of light & wave particle dualism: Photoelectric effect, Hertz and Lenard's observations; Einstein's photoelectric equation - particle nature of light, matter waves; wave nature of particles, de Broglie relation.

Atomic Physics: Alpha-particle scattering expt Rutherford's nuclear atom model of atom; Bohr model of hydrogen atom, energy levels in a hydrogen atom, hydrogen spectrum, continuous & characteristic x-rays.

Nuclear Physics: Composition & size of nucleus, atomic masses, isotopes, isobars; isotones, radioactivity - alpha, beta & gamma particles/ rays & their properties; radioactive decay law; mass-energy relation, mass defect; binding energy per nucleon & its variation with mass number; nuclear fission & fusion.

Solid state Electronics: Energy bands in solids (qualitative ideas only), conductors, insulators & semiconductors; semiconductor diode – I-V characteristics in forward & reverse bias, diode as a rectifier;

I-V characteristics of LED, photodiode, solar cell & Zener diode; Zener diode as a voltage regulator, junction transistor (BJT), transistor action, characteristics of a BJT, BJT as an amplifier (CE configuration) & oscillator; logic gates (OR, AND, NOT, NAND & NOR).

CHEMISTRY:

Atoms, Molecules and Chemical Arithmetic:

Dalton's atomic theory; Gay Lussac's law of gaseous volume; Avogadro's Hypothesis and its applications. Atomic mass; Molecular mass; Equivalent weight; Valency; Gram atomic weight; Gram molecular weight; Gram equivalent weight and mole concept; Chemical formulae; Balanced chemical equations; Calculations (based on mole concept) involving common oxidation – reduction, neutralization, and displacement reactions; Concentration in terms of mole fraction, molarity, molality and normality. Percentage composition, empirical formula and molecular formula; Numerical problems.

Atomic Structure:

Concept of Nuclear Atom – electron, proton and neutron (charge and mass), atomic number. Rutherford's model and its limitations; Extra nuclear structure; Line spectra of hydrogen atom. Quantization of energy (Planck's equation $E = h\nu$); Bohr's model of hydrogen atom and its limitations, Sommerfeld's modifications (elementary idea); The four quantum numbers, ground state electronic configurations of many electron atoms and mono – atomic ions; The Aufbau Principle; Pauli's Exclusion Principle and Hund's Rule. Dual nature of matter and light, de Broglie's relationship, Uncertainty principle; The concept of atomic orbitals, shapes of s, p and d orbitals (pictorial approach).

Radioactivity and Nuclear Chemistry:

Radioactivity α -, β -, γ rays and their properties; Artificial transmutation; Rate of radioactive decay, decay constant, half-life and average age life period of radio-elements; Units of radioactivity; Numerical problems. Stability of the atomic nucleus – effect of neutron-proton (n/p) ratio on the modes of decay, group displacement law, radioisotopes and their uses (C, P, Co and I as examples) isobars and isotones (definition and examples), elementary idea of nuclear fission and fusion reactions.

The Periodic Table and Chemical Families:

Modern periodic law (based on atomic number); Modern periodic table based on electronic configurations, groups (Gr. 1-18) and periods. Types of elements – representative (s-block and p-block), transition (d-block) elements and inner transition (f-block/lanthanides and actinides) and their general characteristics. Periodic trends in physical and chemical properties – atomic radii, valency, ionization energy, electron affinity, electronegativity, metallic character, acidic and basic characters of oxides and hydrides of the representative elements (up to $Z = 36$). Position of hydrogen and the noble gases in the periodic table; Diagonal relationships.

Chemical Bonding and Molecular Structure:

Valence electrons, the Octet rule, electrovalent, covalent and coordinate covalent bonds with examples; Properties of electrovalent and covalent compounds. Limitations of Octet rule (examples); Fajans Rule. Directionality of covalent bonds, shapes of poly – atomic molecules (examples); Concept of hybridization of atomic orbitals (qualitative pictorial approach): sp , sp^2 , sp^3 and dsp^2 . Molecular orbital energy diagrams for homonuclear diatomic species – bond order and magnetic properties. Valence Shell Electron Pair Repulsion (VSEPR) concept (elementary idea) – shapes of molecules. Concept of resonance (elementary idea), resonance structures (examples). Elementary idea about electronegativity, bond polarity and dipole moment, inter- and intra-molecular hydrogen bonding and its effects on physical properties (mp, bp and solubility); Hydrogen bridge bonds in diborane.

Coordination Compounds:

Introduction, Double salts and complex salts, coordination compounds (examples only), Werner's theory, coordination number (examples of coordination number 4 and 6 only), colour, magnetic properties and shapes, IUPAC nomenclature of mononuclear coordination compounds.

Solid State:

Classification of solids based on different binding forces: molecular, ionic, covalent and metallic solids, amorphous and crystalline solids (elementary idea). Unit cell in two dimensional and three dimensional lattices, calculation of density of unit cell, packing in solids, packing efficiency, voids, number of atoms per unit cell in a cubic unit cell, point defects, electrical and magnetic properties. Band theory of metals, conductors, semiconductors and insulators and n & p type semiconductors.

Liquid State:

Vapour pressure, viscosity and surface tension (qualitative idea only, no mathematical derivations).

Gaseous State:

Measurable properties of gases. Boyle's Law and Charles Law, absolute scale of temperature, kinetic theory of gases, ideal gas equation – average, root mean square and most probable velocities and their relationship with temperature. Daltons Law of partial pressure, Grahams Law of gaseous diffusion. Deviations from ideal behavior. Liquefaction of gases, real gases, van der Waals equation; Numerical problems.

Chemical Energetics and Chemical Dynamics:

Chemical Energetics – Conservation of energy principle, energy changes in physical and chemical transformations. First law of thermodynamics; Internal energy, work and heat, pressure – volume work; Enthalpy. Internal energy change (ΔE) and Enthalpy change (ΔH) in a chemical reaction. Hess's Law and its applications (Numerical problems). Heat of reaction, fusion and vaporization; Second law of thermodynamics; Entropy; Free energy; Criterion of spontaneity. Third law of thermodynamics (brief introduction).

Chemical Equilibria – The Law of mass action, dynamic nature of chemical equilibria. Equilibrium constants, Le Chatelier's Principle. Equilibrium constants of gaseous reactions (K_p and K_c) and relation between them (examples). Significance of ΔG and ΔG° .

Chemical Dynamics – Factors affecting the rate of chemical reactions (concentration, pressure, temperature, catalyst), Concept of collision theory. Arrhenius equation and concept of activation energy.

Order and molecularity (determination excluded); First order reactions, rate constant, half – life (numerical problems), examples of first order and second order reactions.

Physical Chemistry of Solutions:

Colloidal Solutions – Differences from true solutions; Hydrophobic and hydrophilic colloids (examples and uses); Coagulation and peptization of colloids; Dialysis and its applications; Brownian motion; Tyndall effect and its applications; Elementary idea of emulsion, surfactant and micelle.

Electrolytic Solutions – Specific conductance, equivalent conductance, ionic conductance, Kohlrausch's law, Faraday's laws of electrolysis, applications. Numerical problems.

Non-electrolytic Solutions – Types of solution, vapour pressure of solutions. Raoult's Law; Colligative properties – lowering of vapour pressure, elevation of boiling point, depression of freezing point, osmotic pressure and their relationships with molecular mass (without derivations); Numerical problems.

Ionic and Redox Equilibria:

Ionic equilibria – ionization of weak electrolytes, Ostwald's dilution law. Ionization constants of weak acids and bases, ionic product of water, the pH – scale, pH of aqueous solutions of acids and bases; Buffer solutions, buffer action and Henderson equation.

Acid-base titrations, acid – base indicators (structures not required). Hydrolysis of salts (elementary idea), solubility product, common ion effect (no numerical problems).

Redox Equilibria: Oxidation – Reduction reactions as electron transfer processes, oxidation numbers, balancing of redox reactions by oxidation number and ion-electron methods. Standard electrode potentials (E°), Electrochemical series, feasibility of a redox reaction. Significance of Gibbs's equation: $\Delta G^\circ = -nFE^\circ$ (without derivation), no numerical problems. Redox titrations with (examples); Nernst equations (Numerical problems).

Hydrogen:

Position of hydrogen in periodic table, occurrence, isotopes, preparation, properties and uses of hydrogen, hydrides-ionic covalent and interstitial; physical and chemical properties of water, heavy water, hydrogen peroxide – preparation, reactions and structure and use; hydrogen as a fuel.

Chemistry of Non-Metallic Elements and their Compounds:

Carbon – occurrence, isotopes, allotropes (graphite, diamond, fullerene); CO and CO₂ production, properties and uses. Nitrogen and Phosphorus – occurrence, isotopes, allotropes, isolation from natural sources and purification, reactivity of the free elements. Preparation, properties, reactions of NH₃, PH₃, NO, NO₂, HNO₂, HNO₃, P₄O₁₀, H₃PO₃ and H₃PO₄.

Oxygen and Sulphur – Occurrence, isotopes, allotropic forms, isolation from natural sources and purification, properties and reactions of the free elements. Water, unusual properties of water, heavy water (production and uses). Hydrogen peroxide and ozone (production, purification, properties and uses).

Halogens – comparative study, occurrence, physical states and chemical reactivities of the free elements, peculiarities of fluorine and iodine; Hydracids of halogens (preparation, properties, reactions and uses), inter-halogen compounds (examples); Oxyacids of chlorine.

Chemistry of Metals:

General principles of metallurgy – occurrence, concentration of ores, production and purification of metals, mineral wealth of India. Typical metals (Na, Ca, Al, Fe, Cu and Zn) – occurrence, extraction, purification (where applicable), properties and reactions with air, water, acids and non-metals. Manufacture of steels and alloy steel (Bessemer, Open-Hearth and L.D. process).

Principles of chemistry involved in electroplating, anodizing and galvanizing. Preparation and properties of K₂Cr₂O₇ and KMnO₄.

Lanthanoids – Electronic configuration, oxidation states, chemical reactivity and lanthanoid contraction and its consequences.

Actinoids – Electronic configuration, oxidation states and comparison with lanthanoids.

Chemistry in Industry:

Large scale production (including physicochemical principles where applicable, omitting technical details) and uses of Sulphuric acid (contact process), Ammonia (Haber's process), Nitric acid (Ostwald's process), sodium bi-carbonate and sodium carbonate (Solvey process).

Polymers:

Natural and synthetic polymers, methods of polymerization (addition and condensation), copolymerization, some important polymers – natural and synthetic like polythene, nylon, polyesters, bakelite, rubber. Biodegradable and non-biodegradable polymers.

Surface Chemistry:

Adsorption – physisorption and chemisorption, factors affecting adsorption of gases on solids, catalysis, homogenous and heterogeneous activity and selectivity; enzyme catalysis colloidal state distinction between true solutions, colloids and suspension; lyophilic, lyophobic multimolecular and macromolecular colloids; properties of colloids; Tyndall effect, Brownian movement, electrophoresis, coagulation, emulsion – types of emulsions.

Environmental Chemistry:

Common modes of pollution of air, water and soil. Ozone layer, ozone hole – important chemical reactions in the atmosphere, Smog; major atmospheric pollutants; Green House effect; Global warming pollution due to industrial wastes, green chemistry as an alternative tool for reducing pollution, strategies for control of environment pollution.

Chemistry of Carbon Compounds:

Hybridization of carbon: σ – and π – bonds. Isomerism – constitutional and stereoisomerism; Geometrical and optical isomerism of compounds containing up to two asymmetric carbon atoms. IUPAC nomenclature of simple organic compounds – hydrocarbons, mono and bifunctional molecules only (alicyclic and heterocyclic compounds excluded).

Conformations of ethane and n-butane (Newman projection only). Electronic Effects: Inductive, resonance and hyperconjugation. Stability of carbocation, carbanion and free radicals; Rearrangement of carbocation; Electrophiles and nucleophiles, tautomerism in β -dicarbonyl compounds, acidity and basicity of simple organic compounds.

Compounds:

Alkanes – Preparation from alkyl halides and carboxylic acids; Reactions – halogenation and combustion.

Alkenes and Alkynes – Preparation from alcohols; Formation of Grignard reagents and their synthetic applications for the preparation of alkanes, alcohols, aldehydes, ketones and acids; S_N1 and S_N2 reactions (preliminary concept). Markownikoff's and anti-Markownikoff's additions; Hydroboration;

Oxymercuration-demercuration, reduction of alkenes and alkynes (H_2 /Lindlar catalyst and Na in liquid NH_3), metal acetylides.

Haloalkanes and Haloarenes:

Haloalkanes – Preparation from alcohols; Nomenclature, nature of C-X bond, physical and chemical properties, mechanism of substitution reactions, optical rotation. Formation of Grignard reagents and their synthetic applications for the preparation of alkanes, alcohols, aldehydes, ketones and acids; S_N1 and S_N2 reactions (preliminary concept). Uses and environmental effects of - dichloromethane, trichloromethane, tetrachloromethane, iodoform, freons, DDT.

Alcohols:

Preparation of alcohols from carbonyl compounds and esters. Reaction – dehydration, oxidation, esterification, reaction with sodium, $ZnCl_2/HCl$, phosphorous halides.

Ethers – Preparation by Williamson's synthesis; Cleavage with HCl and HI. Aldehydes and Ketones – Preparation from esters, acid chlorides, gem-dihalides, Ca-salt of carboxylic acids. Reaction – Nucleophilic

addition with HCN, hydrazine, hydroxyl amines, semi carbazides, alcohols; Aldol condensation, Clemmensen and Wolff – Kishner reduction, haloform, Cannizzaro and Wittig reactions.

Carboxylic Acids – Hydrolysis of esters (mechanism excluded) and cyanides; Hunsdicker and HVZ reactions.

Aliphatic Amines – Preparation from nitro, cyano and amido compounds. Distinction of 1^o, 2^o and 3^o amines (Hinsberg method); Reaction with HNO₂; Carbyl amine reaction.

Aromatic Compounds:

Benzene – Kekule structure, aromaticity and Hückel rule. Electrophilic substitution – halogenation, sulfonation, nitration, Friedel Crafts reaction, ozonolysis. Directive influence of substituents in monosubstituted benzenes. Carcinogenicity and toxicity.

Amines – Preparation from reduction of nitro compounds; Formation of diazonium salts and their stability; Replacement of diazonium group with H, OH, X (halogen), CN and NO₂, diazocoupling and reduction.

Haloarenes – Nature of C -X bond, substitution reactions; Nucleophilic substitution, cine substitution (excluding mechanism, Directive influence of halogen in monosubstituted compounds only).

Phenols – halogenation, sulfonation, nitration, Reimer – Tiemann and Kolbe reactions. Aromatic Aldehydes – Preparation by Gattermann, Gattermann-Koch, Rosenmund and Stephen's method. Reactions – Perkin, Benzoin and Cannizzaro.

Application Oriented chemistry:

Main ingredients, their chemical natures (structures excluded) and their side effects, if any, of common antiseptics, analgesics, antacids, vitamin-C.

Introduction to Bio-Molecules:

Carbohydrates – Pentoses and hexoses. Distinctive chemical reactions of glucose. Aminoacids – glycine, alanine, aspartic acid, cysteine (structures). Zwitterion structures of amino acids, peptide bond.

ADP and ATP – structures and role in bioenergetics; Nucleic acids – DNA and RNA skeleton structures. Names of essential elements in biological system.

Principles of Qualitative Analysis:

Detection of water soluble non-interfering Acid and Basic Radicals by dry and wet tests from among:

Acid Radicals: Cl^- , S_2^{2-} , SO_4^{2-} , NO_3^- , CO_3^{2-} . Basic Radicals: Cu^{2+} , Al^{3+} , Fe^{3+} , Fe^{2+} , Zn^{2+} , Ca^{2+} , Mg^{2+} , Na^+ , NH_4^+ .

Detection of special elements (N, Cl, Br, I and S) in organic compounds by chemical tests. Identification of functional groups in: phenols, aromatic amines, aldehydes, ketones and carboxylic acids.

APPENDIX –8

Rules of the Examination

1. Candidates are advised to enter the examination centres at least 30 minutes before commencement of the test.
2. Be sure about the exact location of your examination centre and means of commuting, in order to avoid any inconvenience on the day of examination.
3. No candidate will be allowed to seat for the test in any centre other than the one allotted to him/her and as is mentioned in the admit card.
4. Carry the following documents to enter the examination centre.
 - a. A hard copy of admit card of WBJEE-2018
 - b. A copy of colour photograph as was uploaded during online application.
 - c. Any photo identity card in original such as Aadhar card/ Pan card / Passport/ voter card/ 10th standard admit card/ School – ID card.
5. Frisking may be carried out while entering the centre for checking prohibited objects.
6. Candidates are advised to take their seats at least 15 minutes before the test.
7. No candidate will be allowed to enter the examination hall **beyond the scheduled time of commencement of the test under any circumstance.**
8. Candidates are not allowed to carry any written or printed material, calculator, pen, docu-pen, log table, wristwatch, any communication device like mobile phones etc. inside the examination hall. Any candidate found with such items will be **reported against** & his/her candidature will be summarily cancelled.
9. Question booklets will be distributed well before commencement of the test. Take out the OMR sheet without breaking seals of the question booklet.
10. Check that your OMR number & question booklet number are same. If not, ask the invigilator to replace the whole set from same series.
11. Put your signature on the top of question booklet.
12. Read the instructions given on OMR & on the cover page of question booklet very carefully.
13. Write question booklet number & roll number at the appropriate places on the OMR. **(See APPENDIX-12).** Wrong entry of question booklet number & roll number may lead to rejection of the OMR or wrong scoring, for which the Board will not remain responsible. If any candidate makes any mistake, he/she must not over write. Request the invigilator to strike it out & rewrite the correct numbers and put his/her signature.
14. Darken appropriate bubbles of question booklet number & Roll number.
15. Write your name in BLOCK LETTERS, name of the centre & put your signature in appropriate places on the OMR. Do not put any stray mark anywhere else; it may lead to rejection of OMR.

16. Check that your Roll number, photograph, spelling of your name in the attendance sheet (see **APPENDIX-13**) matches with those given in your admit card. If any correction is needed, bring it to the notice of the invigilator.
17. Question booklet seals can be opened only at the time of commencement of test and as will be announced by the invigilator. Check all the pages of question booklet. If there is any damage or missing page or any difficulties to read the question booklet, ask your invigilator to replace the whole set from the same series.
18. Maintain silence during the test. Any conversation/gesticulation or creation of disturbances will be deemed as misdemeanor. If any candidate is found adopting any unfair means, his/her candidature will be cancelled and / or he/she will be debarred either permanently or for a period for the paper as is deemed fit by the Centre- in- Charge.
19. No discussion will be allowed with the invigilator regarding any question.
20. Candidates may do rough work in the space provided in the question booklet.
21. No candidate will leave his/her seat without permission of the invigilator until the test is over.
22. No candidate will leave the hall till the end of the test & all OMRs are collected & tallied by the invigilator.
23. Candidates are allowed to take his/her question booklet after the test.
24. Any candidate found to occupy a seat other than the one allotted to him/her will be **reported against** & his/her paper will be cancelled.
25. If any Examinee is found impersonating, he/she will be **handed over to the police** & candidature of the original candidate will be cancelled outright.

APPENDIX –9

District-wise list of examination zones

Districts of W B.	Zones			
Alipurduar	Alipurduar			
Bankura	Bankura	Bishnupur		
Birbhum	Bolpur	Suri		
Paschim Burdwan	Asansol	Durgapur		
Purba Burdwan	Burdwan			
Coochbihar	Coochbihar			
Darjeeling	Kurseong	Siliguri		
Dakshin Dinajpur	Balurghat			
Uttar Dinajpur	Raiganj			
Hooghly	Arambagh	Bandel, Chinsurah	Srirampur	
Howrah	Bally, Uttarpara	Central Howrah, Shibpur	Domjur	Uluberia
Jalpaiguri	Jalpaiguri			
Jhargram	Jhargram			
Kalimpong	Kalimpong			
Kolkata	Central Kolkata	North Kolkata	South Kolkata	
Malda	Malda			
Paschim Medinipur	Garbeta	Kharagpur	Medinipur	
Purba Medinipur	Contai	Haldia	Tamluk	
Murshidabad	Berhampur	Jiaganj	Raghunathganj	
Nadia	Kalyani	Krishnanagar	Nabadwip	
Purulia	Purulia			
North 24 Parganas	Barrackpur, Barasat	Basirhat	Bongaon	
South 24 Parganas	Diamond Harbour	Jainagar	Sonarpur, Baruipur	
Other States				
Assam	Silchar			
Tripura	Agartala			

WBJEEB attempts to allocate the examination centre of a candidate at his/her 1st choice. **No request for change of allocated centre will be entertained under normal circumstances.** Any examination zone may be dropped in unavoidable circumstances. **Discretion of the Board shall be final in this regard.**

APPENDIX –10

Important dates

	Activity	Date (with time)
1	Start of Online form fill-up	19/12/2017
2	Last date of online form fill-up including payment and downloading confirmation page	19/01/2018
	Last date of downloading confirmation page	24/01/2018
3	Window for correction by candidates	26/01/2018 to 28/01/2018
4	Publication of Downloadable Admit Card in www.wbjeeb.nic.in	10/04/2018 (tentative)
5	Date of Examinations: Paper-I (Mathematics) Paper-II (Physics & Chemistry)	22/04/2018 11:00 a.m. to 1.00 p.m. 2:00 p.m. to 4:00 p.m.
6	Publication of Results	05/06/2018 (tentative)

Note: All schedules are subject to change under unavoidable circumstances.

APPENDIX –11

Guidelines for filling up the online application form

S.N.	Description of Field	Input	Remarks
1.	Candidate's Name		• Max length 46 characters • Only characters are allowed • As registered in class 12 or equivalent Examination
2.	Father's Name		• Maximum 46 characters • Only characters are allowed • As registered in class 12 or equivalent Examination. • Salutations like Late, Mr., Ms., Mrs., Dr., Prof. should not used
3.	Mother's Name		• Maximum 46 characters • Only characters are allowed • As registered in class 12 or equivalent Examination. • Salutations like Late, Mr., Ms., Mrs., Dr., Prof. should not used
4.	Date of Birth	---Select---	• DD/MM/YYYY • (See section 3.1 of Information Bulletin)
5.	Gender	---Select---	• Male • Female • Transgender
6.	Domicile	---Select---	• Dropdown list.
7.	Category	---Select---	• For domiciles of W.B. ○ General ○ SC ○ ST ○ OBC-A ○ OBC –B • For domicile in other states/UTs ○ General
8.	Person with Disability (PWD)	---Select---	• Yes • No (Formerly known as Physically Handicapped)

9.	Type of Disability	---Select---	• Locomotor disability • Visual Impairment • Hearing impairment • Speech and language disability
10.	Percentage of Disability		• Percentage of Disability
11.	Home District	---Select---	• Dropdown list if domicile of WB. Otherwise write name of home district
12.	Income Category	---Select---	1. Above 10 lakhs 2. From 6.0 lakhs to below 10 lakhs 3. From 2.5 lakhs to below 6.0 lakhs 4. Below 2.5 lakhs
13.	Do you belong to TFW	---Select---	• Auto filled • 'Yes', If income category given above is 4 and domicile of WB then TFW='YES' else TFW='NO'
14.	Religion	---Select---	• Hindu • Muslim • Christian • Buddhist • Sikh • Other
15.	Nationality	Auto Filled	• Indian
16.	Aadhaar No.		Aadhar No. (Optional)
17.	Have you Applied in JEE (Main) 2018?	---Select---	• Yes • No
18.	Enter Application No of JEE(Main) 2018		• Mandatory, if answer of the previous question is 'Yes'.
19.	Apply For	---Select---	• Engineering/Architecture/Pharmacy
20.	1 st Choice of Exam City:	---Select---	Mandatory. Select from dropdown list

21.	2 nd Choice of Exam City:	---Select---	Mandatory. Select from dropdown list
22.	3 rd Choice of Exam City:	---Select---	Mandatory. Select from dropdown list
Class 12 th equivalent examination details			
23.	Educational Qualification	---Select---	Class 12th or equivalent
24.	Pass Status	---Select---	- Passed - Appearing
25.	Course/Stream Name	---Select---	Class 12th or equivalent
26.	Board/University Name	---Select---	Select from drop down list
27.	Year of Passing	---Select---	Select from drop down list
28.	Maximum Marks		
29.	Marks Obtained		
30.	Marks (%)		Auto Calculate
31.	Roll No/Enroll No		
32.	Institute Name and address		Mandatory
33.	Pin code		Mandatory
Communication Details			
34.	Complete Address		Max 50 char
35.	Locality		Max 50 char (optional)
36.	City / Town / Village		Mandatory
37.	State	---Select---	Mandatory. Select from dropdown list

38.	District	---Select---	Mandatory. Select from dropdown list
39.	Pin Code		Mandatory
40.	Email Id		Mandatory
41.	Mobile no.		Mandatory
Choose Password			
42.	Choose Password		Mandatory
43.	Confirm Password		Mandatory
44.	Security Question	---Select---	Mandatory. Select from dropdown list
45.	Security Answer		Mandatory
Image Uploading			
46	At this stage the candidate is required to upload scanned images of his/her recent colour photograph and signature all in one go. For detail instruction, see section 8.3 of the Information Bulletin.		
Fee Payment			
47	At this stage, the candidate is required to pay the requisite fees. For detail instruction, see section 8.4 of the Information Bulletin.		
Confirmation Page			
48	Once the fee payment is made, the candidate will be directed to download the confirmation page. Download the confirmation page and preserve the same.		

Sample OMR

APPENDIX –12

2000007

OMR ANSWER SHEET NO.

INSTRUCTIONS FOR CANDIDATES

1. Use only BLACK or BLUE ball point pen for filling the bubbles.
 2. For Category 1 and Category 2 questions, more than one darkened bubble will be treated as wrong answers.
 3. Please do not make any stray/extraneous mark on this sheet. Rough work must not be done on this sheet.
 4. Do not damage this sheet by using eraser or white ink etc.
 5. Do not write your name or roll number or put any identification on right hand side of this sheet. Violation of this will lead to invalidation of candidature.
 6. How to darken the bubbles:

Correct Method


Wrong Method


1. QUESTION BOOKLET NO.
2000007

2. ROLL NUMBER
4701110007

3. SUBJECT
Biological Science

4. NAME OF THE CANDIDATE (In Block Letters)
Rajarshi Lal Rakshit

5. NAME OF THE CENTRE
**Aliporiduan Hindi Madhyamik
 vidyalaya. (Hs)**

6. SIGNATURE OF THE CANDIDATE
Rajarshi Lal Rakshit

7. SIGNATURE OF THE INVIGILATOR
**Mehar Lal Ram
 20/7/16.**

8. ANSWERS

Biological Science CATEGORY I: Q1-Q80

1	A	B	C	D
2	A	B	C	D
3	A	B	C	D
4	A	B	C	D
5	A	B	C	D
6	A	B	C	D
7	A	B	C	D
8	A	B	C	D
9	A	B	C	D
10	A	B	C	D
11	A	B	C	D
12	A	B	C	D
13	A	B	C	D
14	A	B	C	D
15	A	B	C	D
16	A	B	C	D
17	A	B	C	D
18	A	B	C	D
19	A	B	C	D
20	A	B	C	D
21	A	B	C	D
22	A	B	C	D
23	A	B	C	D
24	A	B	C	D
25	A	B	C	D
26	A	B	C	D
27	A	B	C	D
28	A	B	C	D
29	A	B	C	D
30	A	B	C	D
31	A	B	C	D
32	A	B	C	D
33	A	B	C	D
34	A	B	C	D
35	A	B	C	D
36	A	B	C	D
37	A	B	C	D
38	A	B	C	D
39	A	B	C	D
40	A	B	C	D
41	A	B	C	D
42	A	B	C	D
43	A	B	C	D
44	A	B	C	D
45	A	B	C	D
46	A	B	C	D
47	A	B	C	D
48	A	B	C	D
49	A	B	C	D
50	A	B	C	D
51	A	B	C	D
52	A	B	C	D
53	A	B	C	D
54	A	B	C	D
55	A	B	C	D
56	A	B	C	D
57	A	B	C	D
58	A	B	C	D
59	A	B	C	D
60	A	B	C	D

CATEGORY II: Q81-Q105

61	A	B	C	D
62	A	B	C	D
63	A	B	C	D
64	A	B	C	D
65	A	B	C	D
66	A	B	C	D
67	A	B	C	D
68	A	B	C	D
69	A	B	C	D
70	A	B	C	D
71	A	B	C	D
72	A	B	C	D
73	A	B	C	D
74	A	B	C	D
75	A	B	C	D
76	A	B	C	D
77	A	B	C	D
78	A	B	C	D
79	A	B	C	D
80	A	B	C	D

CATEGORY III: Q106-Q115

106	A	B	C	D
107	A	B	C	D
108	A	B	C	D
109	A	B	C	D
110	A	B	C	D
111	A	B	C	D
112	A	B	C	D
113	A	B	C	D
114	A	B	C	D
115	A	B	C	D

1441_LD

Sample Attendance Sheet

APPENDIX –13

WEST BENGAL JOINT ENTRANCE EXAMINATIONS BOARD
AQ-13/1, Sector - V, Salt Lake City, Kolkata - 700 091
ATTENDANCE SHEET
WBJEE-2016, MEDICAL

CENTRE CODE: 89412
CENTRE NAME: MEGHNAD SAHA INSTITUTE OF TECHNOLOGY
DATE OF EXAM: 20/07/2016
NO. OF PAGES: 115 of 115

118665

S.No.	ROLL NO	NAME	Biological Science	Physics & Chemistry
455	5894120249	 Subrata Halder LTI of Candidate 	Absent* (A)	Absent* (A)
			Question Booklet No. 2080345	Question Booklet No. 1080345
			Signature of Candidate Subrata Halder.	Signature of Candidate Subrata Halder.
456	5894120250	 Debanjan Rajbanshi LTI of Candidate 	Absent* (A)	Absent* (A)
			Question Booklet No. 2080346	Question Booklet No. 1080346
			Signature of Candidate Debanjan Rajbanshi	Signature of Candidate Debanjan Rajbanshi
		LTI of Candidate	Absent* (A)	Absent* (A)
			Question Booklet No.	Question Booklet No.
			Signature of Candidate	Signature of Candidate
		LTI of Candidate	Absent* (A)	Absent* (A)
			Question Booklet No.	Question Booklet No.
			Signature of Candidate	Signature of Candidate

*Absent Candidates should be marked in black/blue ink as (A) by the invigilator.

	Biological Science	Physics & Chemistry
Signature of Centre-in-Charge/Addl Centre-in-Charge	Absents 00 (ZERO)	00
Signature of Invigilator	Prabhatangsu Mahata	Surojit Das

5153