



राष्ट्रीय प्रौद्योगिकी संस्थान अगरतला
National Institute of Technology Agartala

अगरतला/AGARTALA - 799 046 (त्रिपुरा/ TRIPURA)

No.F.NITA.2(519-Estt)/2019/Vol-III/4473

Date: 10.09.2026

RECRUITMENT FOR NON-TEACHING POSTS

National Institute of Technology (NIT) Agartala invites applications from eligible Indian Citizens possessing consistently good academic record and requisite qualifications and experience for recruitment to following Non Teaching Posts on Direct recruitment basis under the Pay Level of 7th CPC as indicated against each.

1. The Prescribed Minimum Qualification and Experience for each Post are as per Recruitment Rules Notified by MHRD, GOI, New Delhi Vide No. F.35-5/2018/TS.III, Dated 04/04/2019).

2. Name and Number of Posts for Each Category:

Post Code	Name of the post	Pay Level as per 7 th CPC	Age not exceeding	Vacancies					
				UR	SC	ST	OBC-NCL	EWS	Total
1	Technical Assistant	PL-6	30 Years	4	1	0	2	0	7
2	Junior Engineer (Civil/ Electrical)			3	1	0	1	0	5
3	Library & Information Assistant			4	0	0	1	0	5
4	SAS Assistant			2	0	0	0	0	2
5	Pharmacist	PL-5	27 Years	1	0	0	0	0	1
6	Senior Technician	PL-4	33 Years	4	1	3	0	1	9
7	Technician	PL-3	27 Years	6	2	5	0	1	14
8	Lab Attendant	PL-1	27 Years	3	2	2	0	1	8
Grand Total				27	7	10	4	3	51

In all cases of age relaxations, maximum age limit taking into benefit of cumulative age relaxation shall be extended to all the eligible applicants as on last date of submission of online application.

Reservation for PwD and Ex-Servicemen categories will be provided as per the extant Government of India rules.

Further details are available on the Institute website. Interested candidates may apply online through the link available on the Institute website at <https://nita.ac.in> under the tab Recruitment. The link for online application shall remain active from 10:00 AM on 20th September, 2026 to 20th October, 2026 (till 05 PM only). Interested candidates may apply within this time limit through the above link.

Applicants should carefully read and check the eligibility regarding age limit and educational qualifications especially the specialization and relevant or appropriate trade/field/subject before applying. The eligibility criteria and other conditions of the above posts are as per Recruitment Rules of NITs (2019) and as updated from time to time by the Ministry of Education, Govt. of India.

REGISTRAR



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GENERAL INSTRUCTIONS AND INFORMATION

1. Essential/ Desirable Qualification, Age and Experience:

- Essential qualification, desirable qualification, age and experience for the above posts are as per Recruitment Rules (2019) for Non-Teaching staff in NITs notified vide No.F.35-5/2018-TS.III of MHRD's letters dated 20.02.2019 and 04.04.2019. (Annexure A)
 - In MHRD notification No. F.35-5/2018-TS.III, dated 04.04.2019, the Educational and other qualification required for direct recruitment in some of the posts, is First Class Bachelor's Degree/First Class Diploma.
 - In case First Class/ Division are not mentioned in degree/ Diploma Certificate/ Marks Sheet, then the candidate should have passed and secured at least 6.5 CGPA (on 10-Point scale) or 60% marks in aggregate. The above mentioned CGPA/Percentage should be awarded by a recognized University/Institute.
 - Only primary mode of evaluation (CGPA or percentage) as mentioned in the qualifying degree certificate/mark sheet shall be considered while verifying eligibility. In case both CGPA and percentage are mentioned, then only CGPA would be considered.
 - Conversion from CGPA to percentage or vice versa given by an individual Institute/university will not be allowed.
 - If CGPA is on a different scale than the 10-point scale, then it would be linearly mapped to a 10-point scale for determination of eligibility.
- Applicants should possess the prescribed qualification and experience for the respective post as on the last date of application. Selected candidates would be required to produce specific certificates in Original at the time of document verification as per eligibility conditions of NIT Agartala failing which their candidature will be cancelled.
 - Candidates who wish to apply for more than one post should apply separately for each post in the prescribed manner, and separate application with fee must be deposited for each post. However, the candidates will do so at their own risk as the schedule of Examination for any two post codes may coincide. No relief of such accounts will be provided/ entertained.
 - Number of posts advertised may increase or decrease as per the requirement of the institute during the selection process. The Institute reserves the right to fill or not to fill some or all the advertised positions or any position.
 - The decision of the Institute related to all matters pertaining to the recruitment shall be final and binding on the applicants.
 - Age relaxation will be given to SC/ST/OBC/PwD/Ex-servicemen/ departmental candidates as per Govt. of India norms. The lower age limit for all posts shall be 18 years. The upper age limit mentioned in the advertisement is with reference to the unreserved vacancies. Cumulative Age relaxation as applicable to relevant categories shall be extended. Departmental candidates serving in State/Central Government / PSUs / Autonomous Bodies / Universities / Government Educational Institutions on regular employment who have completed a minimum of 03 years continuous service shall be eligible for age relaxation of 05 years, subject to the production of a No Objection Certificate (NOC) issued by the Competent Authority of the organization/institution where they are serving at the time of Document Verification.
 - One time age relaxation up to the age of 56 years prescribed for a particular post in non teaching as per recruitment rules (RR-2019) shall be granted to the non teaching staff who are working on ad-hoc/temporary/contractual/outsourced basis at NIT Agartala as per the decision of MHRD vide F.35-5/2018- TS.III, dated 20th February, 2019 and BOG of NIT Agartala vide item no 17 of 47th BoG dated 26th June, 2019. Such candidates are required to submit/upload the supporting documents depicting their association with NIT Agartala failing which the relaxation will be

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rejected, no representation to that effect will be entertained under any circumstance thereafter for availing age relaxation.

8. Regular staffs of NIT Agartala, who are otherwise eligible, shall be allowed to participate in the selection process irrespective of age and percentage of marks. This will be applicable to the regular staffs of NIT Agartala who were appointed before the date of implementation of RRs in NITs including Model RRs (2012).
9. Reserved category candidates (SC/ST/OBC-NCL) applying against Unreserved (UR) vacancies shall not be entitled to any relaxation in age, qualifying marks, or any other concession admissible to their respective categories. Candidates who avail age relaxation to become eligible for the recruitment process shall be considered only against the reserved vacancies of the category to which they belong, even if they secure merit sufficient for consideration under the UR category.
10. No TA/DA will be paid for attending recruitment test/ document verification.
11. Persons serving in State/Central Govt. / Semi Govt. / PSUs / Universities / Govt. Educational Institutions must bring "NO OBJECTION CERTIFICATE" from the Competent Authority of the organization/ institution they are serving at the time of Document Verification. Otherwise, they will not be allowed for Document Verification.
12. Any vigilance/criminal/disciplinary cases should not be pending against the candidates working in any Government organization/Autonomous body/Semi Govt./PSUs/ Universities/Govt. Educational Institutions. In such cases, the application shall not be considered or scrutinized.
13. Ex-Servicemen seeking age relaxation as admissible under the rules of the Government of India shall upload self-attested copy of valid Discharge / Service Certificate.
14. Original documents, along with one set of self-attested copies will have to be produced at the time of document verification. All related certificates, in original, proving the eligibility are mandatory to be produced during document verification. Without original certificates, the candidature shall be out rightly rejected at the time of document verification. No representation for any relaxation will be accepted/ entertained.
15. All details related to recruitment process shall be available on the Institute website only. Applicants are advised to keep a regular watch on the Institute's website for any updates. No separate communication in any form shall be made in this respect.
16. Application form (containing fee payment details) & e-receipt should be printed by the candidate and kept for reference with him/her.
17. Candidates should ensure that their Name, Father's Name, Date of Birth should exactly match as recorded in the Matriculation or equivalent certificate. In case any candidate has formally changed the name, then gazette notification or any other legal document, as applicable should be submitted at the time of Document Verification.
18. Only date of birth indicated in 10th/12th/Birth Certificate will be accepted. No subsequent request for change shall be entertained under any circumstances.
19. Candidates are advised to indicate their active mobile number and valid e-mail ID in the ONLINE application and keep them active during the entire recruitment process, as important messages will be sent by email and/ or on mobile, which will be deemed to have been read by the candidates. Candidates are required to carefully fill/provide all the detailed information regarding personal details/Bio-Data, fees, etc., through ONLINE application. The candidate is responsible to prove that all the information provided/submitted by him/her in the application is true.
20. No interim queries regarding Selection Process will be entertained at any stage.
21. In case of any inadvertent error in the selection process, which may be detected, at any stage, even after the issuance of the Offer Letter, the Institute reserves the right to modify/withdraw/cancel whole or any part of selection process.
22. In case of any dispute/ambiguity that may occur in the selection process, the decision of the Institute shall be final.

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23. Applicants must be in sound health. If selected, they must be prepared to undergo such medical examination before the District Medical Board and produce the fitness certificate after the selection process.
24. All the appointments are subject to verification of academic qualifications, experience, conduct, community certificates, medical fitness followed by police verification of the selected applicants. During the period of Institute service, if the Institute, on its verification, finds any discrepancy in the claims made by the applicant, besides departmental proceedings, suitable legal action shall also be initiated as per Government of India Rules.
25. Decision of the Institute regarding conduct of examination, verification of documents and selection would be final and binding on all applicants. No representation/ correspondence will be entertained in this regard.
26. Action against applicants found guilty of misconduct:
Applicants are warned not to furnish any particulars that are false or suppress any material information while filling in the application form. Applicants are also warned that they should in no case attempt to alter or otherwise tamper with any entry in a document or the attested certified copy submitted by them nor should they submit a tampered/fabricated document. Without prejudice to criminal action, wherever necessary, candidature will be summarily cancelled / debarred at any stage of the recruitment in respect of applicants in case of any of the following:
 - a. Making wrong declarations and giving mis-interpretation of the facts in the application.
 - b. In possession of mobile phone & accessories and other electronic gadgets at the examination centres, whether in use or in switched off mode and on person or otherwise.
 - c. Involved in malpractices.
 - d. Using unfair means in the examination hall.
 - e. Obtaining support for his/her candidature by any means.
 - f. Impersonate/Procuring impersonation by any person.
 - g. Submitting fabricated documents or documents which have been tampered with.
 - h. Making statements which are incorrect or false or suppressing material information.
 - i. Resorting to any other irregular or improper means in connection with his/her candidature for the examination.
 - j. Misbehaving in any manner in the examination hall with the Supervisor, Invigilator or NIT, Agartala representatives.
 - k. Taking away the Answer Sheet with him/her from the examination hall, or passing it on to unauthorized persons during the conduct of the examination.
 - l. Intimidating or causing bodily harm to the staff employed by the NIT Agartala during the conduct of examination.
 - m. Being ineligible for the examination by not fulfilling the eligibility conditions mentioned in the notice.
 - n. Candidature can also be cancelled at any stage of the recruitment on any other ground which the Institute considers to be sufficient cause for cancellation of candidature.
27. Application forms, downloaded and submitted offline, would not be accepted. The applicant will be solely responsible for the authenticity of the submitted information.
28. The Institute reserves the right to fill up or not to fill some or all the advertised positions or any position, cancel the advertisement in whole or in part, without assigning any reason and its decision in this regard shall be final. The Institute reserves the right to extend the closing date for receipt of applications.
29. Applicants should not have been convicted by any Court of Law. The decision of NIT Agartala in all matters relating to eligibility, acceptance or rejection of the applications, penalty for false information, mode of selection, conduct of examination(s), selection and allotment of the



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department/ centre/ section to selected applicants will be final and binding on the applicants. No enquiry/correspondence will be entertained in this regard.

30. Legal disputes, if any, with National Institute of Technology Agartala are to be dealt in jurisdiction of Tripura High Court only.
31. Canvassing in any form OR on behalf of a candidate will be disqualified.
32. The Institute will retain data of online applications received for non-shortlisted applicants only for three months after completion of recruitment process.
33. Applicants would be allowed to appear in the selection process on the basis of the information furnished by them in their application form. Issuance of letter for the selection process will not confer any right for appointment. If the applicants are found ineligible at any stage of recruitment process, he/she will be disqualified, their candidature may be cancelled and if selected, appointment may be cancelled. Hiding information or submitting false information may lead to cancellation of candidature at any stage of recruitment. In case any information given / declaration by the applicant is found to be false or if the applicant has wilfully suppressed any material information relevant to the appointment, he/she will be liable to be removed from the service and any penal action may be taken as deemed fit by the appointing authority.
34. Selected candidates will be under Probation for a period of One Year and will be confirmed subject to satisfactory completion of the probation and other requirements as per rule. Upon final selection, the candidates will be governed by the rules and regulations in accordance to NIT Act and Statues.
35. In accordance with the DoPT Office Memorandum No. F. No. 39020/01/2013-Estt.(B)-Part dated 29 December 2015, no interview shall be conducted for any Group 'B' or Group 'C' post. The selection process for all advertised posts shall consist of a Computer Based Test (CBT).
The schedule, venue, and other relevant details of the CBT shall be notified separately on the Institute website. The final merit list shall be prepared solely on the basis of the marks obtained in the Computer Based Test (CBT), subject to qualifying the prescribed skill test(s), wherever applicable.
The syllabus for the Computer Based Test for the respective post is attached in **Annexure- B**.
36. Tie Breaking Principle:
 - a) In case two or more candidates score equal marks in the online test, weightage will be given to the candidate scoring more marks in Part A.
 - b) If there is tie even after this, merit list will be prepared based on the Date of Birth of the candidates as per the Matriculation Certificate – the candidate born earlier shall be placed before the candidate born later.
 - c) In cases where a tie persists even after applying the above Tie Breaking Principles, it will be resolved at the discretion of the Institute.
37. The applications must be submitted separately for each post with requisite fee of Rs. 1000/- for UR/OBCNCL/EWS candidates and Rs. 750/- for SC/ST Category Candidates (Non-refundable) in online mode, through the link available on the application. No application fee is required for PwD candidates applying under PWD category.
38. Candidates who are not exempted from Fee payment must ensure that their Fee has been deposited with NIT Agartala along with duly filled application. If the Fee is not received by NIT Agartala, application will be **SUMMARILY REJECTED** and no request for consideration of such Applications and Fee payment after the period specified in the Advertisement shall be entertained.
39. The department wise indicative distribution of posts, specifically for Post Codes 3-4 and 9-10 is provided in **Annexure C**.
40. Details are available in the Institute website. Interested candidates may apply online through the link available on the Institute website at <https://nita.ac.in> under the tab Recruitment.

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41. The link for online application shall remain active from 10:00 AM on 20th September, 2026 to 20th October, 2026 (till 05 PM only). Interested candidates may apply within this time limit.
42. Candidate(s) should upload all supporting documents/testimonials duly self-attested in a single pdf (maximum size of 10 MB) at the appropriate row/ column in the online application.
43. Change of category shall not be allowed after submission of the online application. In case an applicant fails to upload the valid certificate in support of his/her claim to belong to any of the reserved category or for claiming the benefit of age relaxation, the candidate will be treated as belonging to the General Category and no claim otherwise shall be entertained.
44. Photograph: One recent (not earlier than three months from the date of application) colour passport size photograph with clear front view of the applicant without cap, scarf and sun glasses should be uploaded while filling the online application form. Identical extra colour passport size photograph as uploaded on the online application should be kept for verification at the time of Computer Based Test or as required by the Institute. Applicants may note that Institute may reject the candidature at any stage for uploading old/unclear photograph on the online application form and at variance from the actual physical appearance of the applicant.
45. The crucial date for determining the age limit, essential qualification and other criteria regarding eligibility for the post for the post shall be closing date of submission of online application.
46. Applicants must carry at least one photograph bearing Identity Proof, in original, such as Aadhar Card, Voter ID Card, PAN Card, Driving Licence and Passport to the examination centre, failing which they shall not be allowed to appear for the examination.
47. In order to avoid last minute rush, the applicants are advised to apply early.
48. Documents/ Certificate to be enclosed/ produced: The following documents/ certificates, in original along with one set of photocopies, are required to be brought along with a printout of the online application and receipt/ proof of online application processing fee deposited, at the time of document verification:
 - a. Matriculation/ 10th Standard or equivalent certificate indicating date of birth.
 - b. Higher Secondary/ Class 12th (or equivalent) Board Certificate and Mark sheet.
 - c. UG/ PG Degree/ ITI/ Diploma certificate (whichever is applicable) along with mark sheets pertaining to all the academic years.
 - d. The Community certificates in the proforma prescribed and issued by the DOPT, Govt. of India vide letter no.F.No.36028/1/2014-Estt. (Res.) dated 3rd September, 2015 will only be accepted as sufficient proof in support of an applicant's claim to belong to Schedule Caste / Schedule Tribe / Other Backward Class. Relevant Caste / Tribe / Community certificates are required to be submitted with duly completed application form. No other certificate will be accepted as a sufficient proof. The caste of the applicant must be in the State-wise Central list of SCs/ STs/OBCs.
 - e. OBC certificate issued on or after 1st April, 2025 shall be considered for reservation under OBC (Non-Creamy Layer) category. The certificate should clearly mention that the applicant belongs to non-creamy layer.
 - f. EWS certificate issued on or after 1st April, 2025 shall be considered for reservation under EWS category, whose family has gross annual income below 8.00 lakh (Rupees Eight Lakh only) for the financial year prior to the year of application. Also, persons whose family owns or possesses any of the assets as mentioned in DoPT, Govt. of India OM No.36039/1/2019-Estt (Res) dated 31st January, 2019 shall also be excluded from being identified as EWS, irrespective of the family income. The EWS certificate must be produced in the prescribed proforma.
 - g. Divyaang (PwBD) applicants shall be required to submit the Disability/Medical Certificate in the proforma prescribed and issued by the competent medical authorities for the purpose of employment as per Government of India norms with duly completed application form.

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Persons suffering from more than 40% of the disability shall only be eligible for the benefit of reservation under this category. The certificate will be rejected if the disability is less than 40%. The Divyaang certificate must be produced in the prescribed proforma issued by the Medical Board constituted either by Central or State Government.

- h. The certificate for claiming reservation/ age relaxation etc in the SC/ST/OBC/EWS/PWD/ESM category must be valid on the last date of submission of online application. ESM claiming for age relaxation should upload self-attested copy of valid Discharge / Service Certificate
- i. Experience Certificate(s) from the Head(s) of Organization(s) if applicable.
- j. Photo identity card (Aadhar Card/ Voter ID Card/ PAN Card/ Driving Licence/ Passport).
- k. The supporting documents for claiming the past experiences at different levels if applicable.
- l. Any other documents, NIT Agartala may deem fit.

49. GUIDELINES FOR PERSONS WITH DISABILITIES USING A SCRIBE

- i. The visually impaired candidates and candidates whose writing speed is adversely affected permanently for any reason can use their own scribe at their cost during the online examination, subject to limits as in (ii) and (iii) below. In all such cases where a scribe is used, the following rules will apply:
 - The candidate will have to arrange his/her own scribe at his/her own cost.
 - The scribe arranged by the candidate should not be a candidate for the same examination. If violation of the above is detected at any stage of the process, candidature of both the candidate and the scribe will be cancelled. Candidates eligible for and who wish to use the services of a scribe in the examination should invariably carefully indicate the same in the online application form. Any subsequent request may not be favourably entertained.
 - A person acting as a scribe for one candidate cannot be a scribe for another candidate.
 - The scribe may be from any academic stream, but should not possess the qualification beyond the qualification of the candidate
 - Both the candidate as well as scribe will have to give a suitable undertaking confirming that the scribe fulfils all the stipulated eligibility criteria for a scribe mentioned above. Further in case it later transpires that he/she did not fulfil any laid down eligibility criteria or suppressed material facts the candidature of the applicant will stand cancelled, irrespective of the result of the online examination.
 - Those candidates who use a scribe shall be eligible for compensatory time of 20 minutes for every hour of the examination or as otherwise advised
 - Scribe should not answer on his/her own. Any such behaviour observed will result in cancellation of candidature
 - Only candidates registered for compensatory time will be allowed such concessions since compensatory time given to candidates shall be system based, it shall not be possible for the test conducting agency to allow such time if he / she is not registered for the same. Candidates not registered for compensatory time shall not be allowed such concessions.
 - During the exam, at any stage, if it is found that scribe is independently answering the questions, the exam session will be terminated and candidate's candidature will be cancelled. The candidature of such candidates using the services of a scribe will also be cancelled if it is reported after the examination by the test administrator personnel that the scribe independently answered the questions.
- ii. Guidelines for Candidates with locomotor disability and cerebral palsy
A compensatory time of twenty minutes per hour or otherwise advised shall be permitted for the candidates with locomotor disability and cerebral palsy where dominant (writing)

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extremity is affected to the extent of slowing the performance of function (minimum of 40% impairment).

iii. Guidelines for Visually Impaired candidates

- Visually Impaired candidates (who suffer from not less than 40% of disability) may opt to view the contents of the test in magnified font and all such candidates will be eligible for compensatory time of 20 minutes for every hour or otherwise advised of examination.
- The facility of viewing the contents of the test in magnifying font will not be available to Visually Impaired candidates who use the services of a Scribe for the examination

iv. In case of candidates with benchmark disabilities, the provision of scribe/lab assistant can be allowed on production of a certificate from the Chief Medical Officer/Civil Surgeon/ Medical Superintendent of a Government health care institution in the prescribed format as per Rights of Persons with Benchmark Disability Act, 2016, to the effect that the person concerned has physical Limitation to write, and scribe is essential to write examination on his behalf.

v. In case the candidate is allowed to bring his own scribe, the qualification of the scribe should be one step below the qualification of the candidate taking examination. The candidates with benchmark disabilities opting for own scribe shall have to submit details of the own scribe in the prescribed format as per Rights of Persons with Benchmark Disability Act, 2016

vi. Permissible disabilities for PwD candidates:

Reservation for Persons with Benchmark Disabilities (PwBD) shall be governed by the provisions of the Rights of Persons with Disabilities Act, 2016, and the instructions/orders issued by the Government of India from time to time. These guidelines are subject to change in terms of GOI guidelines/ clarifications, if any, from time to time.

50. The Institute shall not be held responsible for any inadvertent error, omission, or administrative mistake that may occur during the recruitment process. The Institute reserves the right to rectify any such error or omission at any stage of the recruitment process.
51. NIT Agartala reserves the right to issue any corrigendum/addendum related to this advertisement. Such corrigendum/addendum, if any, shall be published on the Institute website only.
52. Multiple applications for the same post are not permitted. However, candidates who meet the eligibility criteria for multiple posts may apply separately for each post by paying the prescribed application fee for each. The Institute shall not be held responsible for any clash in the online examination date, time, or slot. While the Institute will make its best possible efforts to accommodate such candidates, no individual requests in this regard shall be entertained or considered binding on the Institute.
53. Admit cards for the CBT will be issued solely based on the information furnished by the candidate in the application form. No scrutiny of application/ verification of eligibility credentials will be undertaken at the stage of issuing of admit cards. Hence, it is advisable that all candidates must satisfy themselves about their eligibility before applying for any post. Institute shall not be responsible for any rejection of the candidature at the subsequent stages of recruitment process due to ineligibility.
54. NIT Agartala reserves the right to cancel any offer/appointment issued if it is found at any stage, including after joining or confirmation of service, that a candidate has furnished incorrect or misleading information and thereby secured selection. Therefore, all candidates are advised to furnish accurate and complete information in the application form.


05/09/20
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ANNEXURE- A

Recruitment Rules (2019) for the post of TECHNICIAN

Sl.No.	Particular	Criteria
1.	Name of the Post	Technician
2.	Number of Post(s)	As per sanctioned strength.
3.	Classification	Group - C
4.	Scale of Pay (Grade Pay, Band Pay)	PB :1 (Rs.5,200 - 20,200/-) with Grade Pay of Rs.2000/-
5.	Whether Selection Post or non-Selection Posts	Not Applicable
6.	Age limit for direct recruits	27 years Note:- Relaxable for Departmental Candidates upto five years in accordance with the instructions or orders issued by the Central Government
7.	Educational and other qualifications required for direct recruits	Essential: Senior secondary (10+2) with Science from a Government recognized board with at least 60% marks Or Senior secondary (10+2) from a Government recognized board with at least 50% marks and ITI Course of one year or higher duration in appropriate trade. Or Secondary (10) with at least 60% marks and ITI Certificate of 2 years duration in appropriate trade. Or Diploma in Engineering of three year's duration in relevant field from a Government recognized Polytechnic / Institute.
8.	Whether age and educational qualifications prescribed for direct recruits will apply in the case of promotees	Age bar: Not applicable Educational Qualifications: No. However, must possess at least Senior Secondary with Science or Secondary and ITI certificate of 2 years duration in appropriate trade.
9.	Period of probation, if any	1 year for direct recruits as per NIT Statutes
10.	Method of Recruitment : whether by direct recruitment or by promotion or by deputation or transfer & percentage of the vacancies to be filled by various methods	i) 75% Direct recruitment ii) 25% by Promotion.

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Sl.No.	Particular	Criteria
11.	In case of recruitment by promotion/deputation/absorption, grades from which promotion/ deputation/ absorption to be made	Promotion: Lab Attendant (SG-II) with at least 2 years regular service with Grade Pay of Rs.2000/- through DPC and working performance record (APAR), through prescribed test and interview.
12.	If DPC exists, what is its composition	As per provisions contained in the NITSER Act, 2007, First Statutes and the subsequent Statutes.
13.	Circumstances in which UPSC is to be consulted in making recruitment	Not Applicable

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Recruitment Rules (2019) for the post of SENIOR TECHNICIAN in NITs

Sl.No.	Particular	Criteria
1.	Name of the Post	Senior Technician
2.	Number of Post(s)	As per sanctioned strength.
3.	Classification	Group - C
4.	Scale of Pay (Grade Pay, Band Pay)	PB: 1 (Rs.5,200 - 20,200) with Grade Pay of Rs.2400/-
5.	Whether Selection Post or non-Selection Posts	Not Applicable
6.	Age limit for direct recruits	Not exceeding 33 years Note:- Relaxable for Departmental Candidates upto five years in accordance with the instructions or orders issued by the Central Government
7.	Educational and other qualifications required for direct recruits	<u>Essential:</u> Senior secondary (10+2) with Science from a recognized board with at least 60% marks Or Senior secondary (10+2) from a recognized board with at least 50% marks and ITI Course of one year or higher duration in appropriate trade. Or Secondary (10) with at least 60% marks and ITI Certificate of 2 years duration in appropriate trade. Or Diploma in Engineering of three year's duration in relevant field from a recognized Polytechnic / Institute. <u>Desirable:</u> Bachelor's degree
8.	Whether age and educational qualifications prescribed for direct recruits will apply in the case of promotees	Age bar: Not applicable Educational Qualifications: No. However must possess any of the qualifications mentioned in Row 7 without insisting on percentage of marks/class.
9.	Period of probation, if any	1 year for direct recruits as per NIT Statutes
10.	Method of Recruitment whether by direct recruitment or by promotion or by deputation or transfer & percentage of the vacancies to be filled by various methods	50% by Promotion. 50% by Direct Recruitment

Sl.No.	Particular	Criteria
11.	In case of recruitment by promotion/deputation/absorption, grades from which promotion/ deputation/ absorption to be made	Promotion : At least 5 years regular service as Technician in PB-1, GP 2000/- or at least 5 years combined service of Lab. Attendant (SG-II) and Technician in PB-1, Grade Pay of Rs.2000/- through DPC and working performance record (APAR), through prescribed test and interview.
12.	If DPC exists, what is its composition	As per provisions contained in the NITSER Act, 2007, First Statutes and the subsequent Statutes.
13.	Circumstances in which UPSC is to be consulted in making recruitment	Not Applicable

K. Raju

Recruitment Rules (2019) for the post of TECHNICAL ASSISTANT in NITs

Sl.No.	Particular	Criteria
1.	Name of the Post	Technical Assistant
2.	Number of Post(s)	As per sanctioned strength.
3.	Classification	Group - B
4.	Scale of Pay (Grade Pay, Band Pay)	PB -2 (Rs.9,300 - 34,800/-) with Grade Pay of Rs.4200/-
5.	Whether Selection Post or non-Selection Posts	Not Applicable
6.	Age limit for direct recruits	30 years. Note:- Relaxable for Departmental Candidates up to five years in accordance with the instructions or orders issued by the Central Government
7.	Educational and other qualifications required for direct recruits	Essential: First Class or equivalent Grade in B.E. / B.Tech. / MCA in relevant subject from a recognized University / Institute. Or First Class Diploma in Engineering in relevant Field with excellent academic record Or First Class Bachelor's Degree in Science from a recognized University or Institute Or Master's Degree in Science from a recognized University or Institute with at least 50% marks or equivalent grade
8.	Whether age and educational qualifications prescribed for direct recruits will apply in the case of promotees	Age bar: Not applicable Educational Qualification: No. However must possess any of the qualifications mentioned in Row 7 without insisting on percentage of marks/class.
9.	Period of probation, if any	1 Year for direct recruits as per NIT Statutes.
10.	Method of Recruitment whether by direct recruitment or by promotion or by deputation or transfer & percentage of the vacancies to be filled by various methods	75% by direct Recruitment 25% by Promotion, failing which by deputation (including short term contract).

K. Rajan

Sl.No.	Particular	Criteria
11.	In case of recruitment by promotion / deputation / transfer, grades from which promotion / deputation / transfer to be made	Promotion: At least 2 Years regular service with Grade Pay of Rs.4200/- as Technician (Selection Grade-I) through DPC and working performance record (APAR), through prescribed test and interview. Deputation (including short term Contract): Officers of the Central/State Govt. or similar organized services/semi-Govt./PSU/autonomous organization/ University/ Institute of national importance: a i) holding analogous post; or ii) 6 years regular service with Grade Pay of Rs.2800/- as Technician (SG-II) or its equivalent post. b) Possessing educational qualification as prescribed in Row 7.
12.	If DPC exists, what is its composition	As per the provisions contained in the NITSER Act, 2007, First Statutes and the subsequent Statutes.
13.	Circumstances in which UPSC is to be consulted in making recruitment	Not Applicable

K. Raju

**Recruitment Rules (2019) for the post of JUNIOR ENGINEER / SAS ASSISTANT /
LIBRARY AND INFORMATION ASSISTANT in NITs**

Sl.No.	Particular	Criteria
1.	Name of the Post	Jr. Engineer / SAS Assistant / Library and Information Assistant
2.	Number of Post(s)	As per sanctioned strength.
3.	Classification	Group - B
4.	Scale of Pay (Grade Pay, Band Pay)	PB -2 (Rs.9,300 - 34,800/-) with Grade Pay of Rs.4200/-
5.	Whether Selection Post or non-Selection Posts	Not Applicable
6.	Age limit for direct recruits	30 years.
7.	Educational and other qualifications required for direct recruits	Essential: A. Junior Engineer First Class B.E. / B.Tech. in Civil/Electrical Engineering from a recognized University or Institute. OR First Class Diploma in Civil/Electrical Engineering with excellent academic record B. SAS Assistant (i) First Class Bachelor's Degree in Physical Education from a recognized University or Institution. (ii) Strong record of participation in sports and drama / music / films / painting / Photography / journalism event management or other student/ event management activities during college / University studies. C. Library & Information Assistant First Class Bachelors Degree in Science /Arts/ Commerce from recognized University /Institute and Bachelor's Degree in Library and Information Science. Desirable (for C only): Post Graduate Diploma in Library Automation and Networking, PGDCA or equivalent from a recognized Institution.
8.	Whether age and educational qualifications prescribed for direct	Not Applicable

K. Rajan

Sl.No.	Particular	Criteria
	recruits will apply in the case of promotees	
9.	Period of probation, if any	1 Year for direct recruits as per NIT Statutes.
10.	Method of Recruitment whether by direct recruitment or by promotion or by deputation or transfer & percentage of the vacancies to be filled by various methods	100% direct recruitment
11.	In case of recruitment by promotion / deputation / transfer, grades from which promotion / deputation / transfer to be made	Not Applicable
12.	If DPC exists, what is its composition	Not Applicable.
13.	Circumstances in which UPSC is to be consulted in making recruitment	Not Applicable

K. Rajan

Recruitment Rules (2019) for the post of PHARMACIST in NITs

Sl.No.	Particular	Criteria
1	Name of the post	Pharmacist
2	Number of Post(s)	As per Sanctioned strength.
3	Classification	Group - C
4	Scale of Pay (Grade Pay, Band Pay)	PB:1 (Rs.5,200 - 20,200) with Grade Pay of Rs.2800/-
5	Whether selection post or non-selection post	Not Applicable
6	Age-limit for direct recruits	27 years
7	Educational and other qualifications required for direct recruits	Essential: (i) 10+2 in Science (PCB/PCM) subjects from recognized Board or University. (ii) 2 Years Diploma with First class from an Institute recognized by the Pharmacy Council of India with minimum two years experience in any recognized hospital or pharmacy. Or Bachelor's degree in Pharmacy (B.Pharm.) (iii) Registered as Pharmacist under the Pharmacy Act 1948.
8	Whether age and education qualifications prescribed for direct recruits will apply in the case of promotes	Not Applicable
9	Period of probation, if any	1 year for direct recruits as per NIT Statutes
10	Method of Recruitment Whether by direct recruitment or by promotion or by deputation or transfer & percentage of the vacancies to be filled by various methods	100% Direct recruitment
11	In case of recruitment by promotion / deputation /absorption, grades from which promotion/ deputation/ absorption to be made	Not Applicable

Sl.No.	Particular	Criteria
12	If Departmental Promotion Committee exists, what is its composition	Not Applicable
13	Circumstances in which Union Public Service Commission is to be consulted in making recruitment	Not Applicable

Note: After 2 Years' experience in the Grade Pay of Rs.2800/-, the incumbent will be granted Non Functional up-gradation to the next higher Grade Pay of Rs.4200/- in PB-2 and re-designated as Sr. Pharmacist (personal to the incumbent).

Sr. Pharmacist with GP of Rs.4200/- and 7 years of service, out of which at least 5 years of service in GP of Rs.4200/-, may be considered for promotion to the post of Pharmacist (SG II) with GP of Rs.4600/-.

K. Rajin

**Recruitment Rules (2019) for the post of LAB ATTENDANT / OFFICE ATTENDANT
in NITs**

Sl.No.	Particular	Criteria
1.	Name of the Post	Office Attendant / Lab Attendant
2.	Number of Post(s)	As per sanctioned strength.
3.	Classification	Group - C
4.	Scale of Pay (Grade Pay, Band Pay)	PB : 1 (Rs.5,200 - 20,200/-) with Grade Pay of Rs.1800/-
5.	Whether Selection Post or non-Selection Posts	Not Applicable
6.	Age limit for direct recruits	Not exceeding 27 years
7.	Educational and other qualifications required for direct recruits	<u>Essential:</u> <u>Office Attendant</u> Senior secondary (10+2) from a recognized board. <u>Lab Attendant</u> Senior secondary (10+2) in Science from a recognized board.
8.	Whether age and educational qualifications prescribed for direct recruits will apply in the case of promotees	Not Applicable
9.	Period of probation, if any	1 year for direct recruits as per NIT Statutes
10.	Method of Recruitment : whether by direct recruitment or by promotion or by deputation or transfer & percentage of the vacancies to be filled by various methods	100% Direct Recruitment
11.	In case of recruitment by promotion / deputation / transfer, grades from which promotion / deputation / transfer to be made	Not Applicable
12.	If DPC exists, what is its composition	Not applicable
13.	Circumstances in which UPSC is to be consulted in making recruitment	Not Applicable

V. Raju

POST: Junior Engineer (Civil Engineering/ Electrical Engineering) (Group-B, PB-2, GP-Rs. 42)

SCHEME OF EXAMINATION: The examination will consist of a Competitive Examination comprises the syllabus of Part-I and Part-II.

Exam Pattern

Part	Subject	Marks	Duration
I	English, GK & Current Affairs, General Mental Ability and Numerical Ability	20	1 hr
II	Civil/Electrical Engineering Examination	80	

Part-I

English: Substitution, Spotting Errors, Prepositions, Joining Sentences, Error Correction (Phrase in Bold), Completion, Sentence, Spelling Test, Fill in the blanks, Synonyms, Sentence Arrangement, Antonyms, Idioms and Phrases, Sentence Improvement, Active and Passive Voice, Error Correction (Underlined Part), Transformation, Para Completion, Passage Completion, Substitution.

General Knowledge: About India and it's neighbouring countries, New inventions, Books And Author, Science and innovations, Political Science, Scientific observations, National News(current), International issues, Tribes, Indian Culture, Geography of India, Economic issues in India, Handicrafts, Countries and capitals, Important Dates, World organizations, Famous Places in India, Sculptures, Musical Instruments, Famous Places, Artists, Tourism spots of Historical Importance, Music & Literature, National Dance.

Current Affairs: Budget, History, General Knowledge, Book, Abbreviations, Authors, International & National Organizations, Environment, Indian Economy, Awards, General Science, Geography.

General Mental Ability: On General Mental Ability questions will be set on logical perception, understanding, natural conclusion etc.

Numerical Ability: Questions on Numerical Ability will be similar to that the Compulsory Mathematics paper at the Madhyamik / Matric Examination

Part-II

Syllabus for Junior Engineering (Civil)

Building Materials:

Stone, Lime, Glass, Plastics, Steel, FRP, Ceramics, Aluminum, Fly Ash, Basic Admixtures, Timber, Bricks and Aggregates: Classification, properties and selection criteria; Cement: Types, Composition, Properties, Uses, Specifications and various Tests; Lime & Cement Mortars and Concrete: Properties and various Tests; Design of Concrete Mixes: Proportioning of aggregates and methods of mix design.

Solid Mechanics:

Elastic constants, Stress, plane stress, Strains, plane strain, Mohr's circle of stress and strain, Elastic theories of failure, Principal Stresses, Bending, Shear and Torsion.

Junior-
EE-1
UR-5
OB-1
GC-1

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Structural Analysis:

Basics of strength of materials, Types of stresses and strains, Bending moments and shear force, concept of bending and shear stresses; Analysis of determinate and indeterminate structures; Trusses, beams, plane frames; Rolling loads, Influence Lines, Unit load method & other methods; Free and Forced vibrations of single degree and multi-degree freedom system; Suspended Cables; Concepts and use of Computer-Aided Design.

Design of Steel Structures:

Principles of Working Stress methods, Design of tension and compression members, Design of beams and beam-column connections, built-up sections, Girders, Industrial roofs, Principles of Ultimate load design.

Design of Concrete and Masonry structures:

Limit state design for bending, shear, axial compression and combined forces; Design of beams, Slabs, Lintels, Foundations, Retaining walls, Tanks, Staircases; Principles of pre-stressed concrete design including materials and methods; Earthquake resistant design of structures; Design of Masonry Structure.

Geo-technical Engineering and Foundation Engineering:

Soil exploration – planning & methods, Properties of soil, classification, various tests and interrelationships; Permeability & Seepage, Compressibility, consolidation and Shearing resistance, Earth pressure theories and stress distribution in soil; Properties and uses of geo-synthetics.

Types of foundations & selection criteria, bearing capacity, settlement analysis, design and testing of shallow & deep foundations; Slope stability analysis, Earthen embankments, Dams and Earth retaining structures: types, analysis and design, Principles of ground modifications.

Transportation Engineering:

Planning & construction methodology, Alignment and geometric design; Traffic Surveys and Controls; Principles of Flexible and Rigid pavements design.

Fluid Mechanics:

Fluid properties; Dimensional Analysis and Modeling; Fluid dynamics including flow kinematics and measurements; Flow net; Viscosity, Boundary layer and control, Drag, Lift, Principles in open channel flow, Flow controls, Hydraulic jump; Surges; Pipe networks.

Hydrology and Water Resources Engineering:

Hydrological cycle, Ground water hydrology, Well hydrology and related data analysis; Streams and their gauging; River morphology; Flood, drought and their management; Capacity of Reservoirs.

① ② ③ ④ ⑤ ⑥ ⑦

Multipurpose uses of Water, River basins and their potential; Irrigation systems, water demand assessment; Resources – storages and their yields; Waterlogging, canal and drainage design, Gravity dams, falls, weirs, Energy dissipaters, barrage Distribution works, Cross drainage works and head-works and their design; Concepts in canal design, construction & maintenance; River training, measurement and analysis of rainfall.

Environmental Engineering and Water Supply Engineering:

Sources, Estimation, quality standards and testing of water and their treatment; Rural, Institutional and industrial water supply; Physical, chemical and biological characteristics and sources of water, Pollutants in water and its effects, Estimation of water demand; Drinking water Standards, Water Treatment Plants, Water distribution networks.

Surveying: Classification of surveys, various methodologies, instruments & analysis of measurement of distances, elevation and directions; Field astronomy, Global Positioning System; Map preparation; Photogrammetry; Remote sensing concepts; Survey Layout for culverts, canals, bridges, road/railway alignment and buildings, Setting out of Curves.

Construction Practice, Planning and Management:

Construction – Planning, Equipment, Site investigation and Management including Estimation with latest project management tools and network analysis for different Types of works; Analysis of Rates of various types of works; Tendering Process and Contract Management, Quality Control, Productivity, Operation Cost; Land acquisition; Labour safety and welfare.

Syllabus for Junior Engineering (Electrical)

Electrical Materials

Electrical Engineering Materials, crystal structures, and defects, ceramic materials, insulating materials, magnetic materials – basics, properties, and applications; ferries, ferromagnetic materials, and components; basics of solid-state physics, conductors; Photo-conductivity; Basics of Nano materials and Superconductors.

Electric Circuits and Fields

Circuit elements, network graph, KCL, KVL, Node, and Mesh analysis, ideal current and voltage sources, Thevenin's, Norton's, Superposition and Maximum Power Transfer theorems, transient response of DC and AC networks, Sinusoidal steady-state analysis, basic filter concepts, two-port networks, three-phase circuits, Magnetically coupled circuits, Gauss Theorem, electric field and potential due to point, line, plane, and spherical charge distributions, Ampere's and Biot-Savart's laws; inductance, dielectrics, capacitance; Maxwell's equations.

Electrical and Electronic Measurements:

Resale
North
Coe
Don

Principles of measurement, accuracy, precision, and standards; Bridges and potentiometers; moving coil, moving iron, dynamometer and induction type instruments, measurement of voltage, current, power, energy and power factor, instrument transformers, digital voltmeters and multimeters, phase, time and frequency measurement, Q-meters, oscilloscopes, potentiometric recorders, error analysis, Basics of sensors, Transducers, basics of data acquisition systems

Basic Electronics Engineering:

Basics of Semiconductor diodes and transistors and characteristics, Junction and field-effect transistors (BJT, FET and MOSFETS), different types of transistor amplifiers, equivalent circuits and frequency response; oscillators and other circuits, feedback amplifiers.

Analog and Digital Electronics:

Operational amplifiers – characteristics and applications, combinational and sequential logic circuits, multiplexers, multivibrators, sample and hold circuits, A/D and D/A converters, basics of filter circuits and applications, simple active filters; Microprocessor basics- interfaces and applications, basics of linear integrated circuits; Analog communication basics, Modulation, and demodulation, noise and bandwidth, transmitters and receivers, signal to noise ratio, digital communication basics, sampling, quantizing, coding, frequency and time domain multiplexing, power line carrier communication systems.

Systems and Signal Processing:

Representation of continuous and discrete-time signals, shifting and scaling operations, linear, time-invariant and causal systems,

Fourier series representation of continuous periodic signals, sampling theorem, Fourier and Laplace transforms, Z transforms,

Discrete Fourier transform, FFT, linear convolution, discrete cosine transform, FIR filter, IIR filter, bilinear transformation.

Control Systems:

Principles of feedback, transfer function, block diagrams, and signal flow graphs, steady-state errors, transforms and their applications; Routh-Hurwitz criterion, Nyquist techniques, Bode plots, root loci, lag, lead and lead-lag compensation, stability analysis, transient and frequency response analysis, state-space model, state transition matrix, controllability and observability, linear state variable feedback, PID and industrial controllers.

Electrical Machines:

Single-phase transformers, three-phase transformers – connections, parallel operation, auto-transformer, energy conversion principles, DC machines – types, windings, generator characteristics, armature reaction, and commutation, starting and speed control of motors, Induction motors – principles, types, performance characteristics, starting and speed control, Synchronous machines – performance, regulation, parallel operation of generators, motor starting, characteristics and applications, servo and stepper motors.

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Power Systems:

Basic power generation concepts, steam, gas and water turbines, transmission line models and performance, cable performance, insulation, corona, and radio interference, power factor correction, symmetrical components, fault analysis, principles of protection systems, basics of solid-state relays and digital protection; Circuit breakers, Radial and ring-main distribution systems, Matrix representation of power systems, load flow analysis, voltage control, and economic operation, System stability concepts, Swing curves and equal area criterion. HVDC transmission and FACTS concepts, Concepts of power system dynamics, distributed generation, solar and wind power, smart grid concepts, environmental implications, fundamentals of power economics.

Power Electronics and Drives:

Semiconductor power diodes, transistors, thyristors, triacs, GTOs, MOSFETs and IGBTs – static characteristics and principles of operation, triggering circuits, phase control rectifiers, bridge converters – fully controlled and half controlled, principles of choppers and inverters, basic concepts of adjustable speed DC and AC drives, DC-DC switched-mode converters, DC-AC switched-mode converters, resonant converters, high-frequency inductors and transformers, power supplies.

Q90

Q97

Q98

Q99

Q100

Q101

Q102

SCHEME OF EXAMINATION: The examination will consist of a Competitive Examination comprises the syllabus of Part-I and Part-II

Exam Pattern

Examination	Part	Subject	Marks		Duration
1	I	English, GK & Current Affairs, General Mental Ability and Numerical Ability	20	100	60 minutes
	II	Library Information Science Test	80		

Examination: 1 Written Exam of 100 marks (MCQ based) comprises the syllabus of Part I&II.

Detail Syllabus:

Part-I

English: Substitution, Spotting Errors, Prepositions, Joining Sentences, Error Correction (Phrase in Bold), Completion, Sentence, Spelling Test, Fill in the blanks, Synonyms, Sentence Arrangement, Antonyms, Idioms and Phrases, Sentence Improvement, Active and Passive Voice, Error Correction (Underlined Part), Transformation, Para Completion, Passage Completion, Substitution.

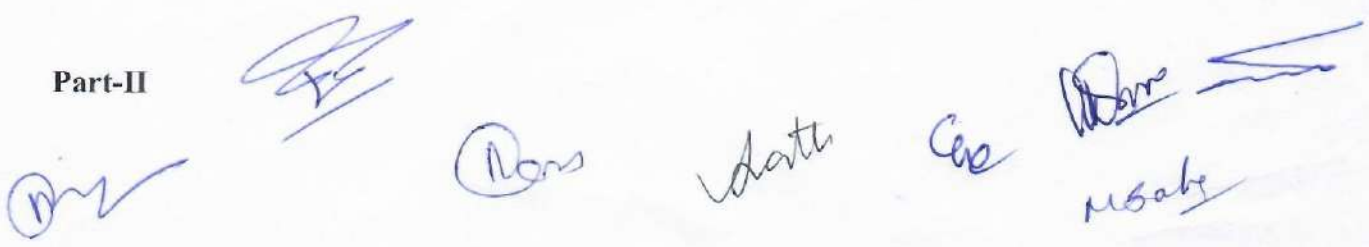
General Knowledge: About India and it's neighbouring countries, New inventions, Books And Author, Science and innovations, Political Science, Scientific observations, National News(current), International issues, Tribes, Indian Culture, Geography of India, Economic issues in India, Handicrafts, Countries and capitals, Important Dates, World organizations, Famous Places in India, Sculptures, Musical Instruments, Famous Places, Artists, Tourism spots of Historical Importance, Music & Literature, National Dance.

Current Affairs: Budget, History, General Knowledge, Book, Abbreviations, Authors, International & National Organizations, Environment, Indian Economy, Awards, General Science, Geography.

General Mental Ability: On General Mental Ability questions will be set on logical perception, understanding, natural conclusion etc.

Numerical Ability: Questions on Numerical Ability will be similar to that the Compulsory Mathematics paper at the Madhyamik / Matric Examination

Part-II



Unit-I: Library Organization and Administration:

- a) Library in society, concept and role etc.
- b) Fundamentals of Library Planning
- c) Types of Libraries
- d) Laws of Library Science
- e) Library Cooperation
- f) Professional organisations
- g) Library housekeeping operations
- h) Stock verification
- i) Conservation and preservation of Library materials

Unit-II: Information Sources and Services

- a) Sources of information
- b) Repackaging of information
- c) Reference and information services
- d) Five laws and reference service

Unit-III: Organization of knowledge:

Library classification

- a) Definition need and purpose
- b) General theory of classification
- c) Classification schemes.

Library Cataloguing

- a) Definition need and purpose
- b) Kinds of entries
- c) Dictionary classified and Subject cataloguing
- d) Centralised and cooperative cataloguing
- e) Anglo American Cataloguing Rules-2

Unit-IV, Information Technology:

- a) Fundamentals of Information Technology
- b) Internet
- c) Library Automation
- d) Networking and Telecommunications
- e) Digital Library

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POST: Office Attendant / Lab Attendant (Group-C, PB-1, GP-Rs. 1800/-)

UR-5, 57
Office at
Lab at

SCHEME OF EXAMINATION: The examination will consist of a Competitive Examination

Exam Pattern

Examination	Part	Subject	Marks	Duration
1	I	English, GK & Current Affairs, General Mental Ability and Numerical Ability, Knowledge of Computer	100	60 minutes

Examination: 1 Written Exam of 100 marks (MCQ based) comprises the syllabus of Part I.

Detail Syllabus:

Part-I

English: Substitution, Spotting Errors, Prepositions, Joining Sentences, Error Correction (Phrase in Bold), Completion, Sentence, Spelling Test, Fill in the blanks, Synonyms, Sentence Arrangement, Antonyms, Idioms and Phrases, Sentence Improvement, Active and Passive Voice, Error Correction (Underlined Part), Transformation, Para Completion, Passage Completion, Substitution.

General Knowledge: About India and it's neighbouring countries, New inventions, Books And Author, Science and innovations, Political Science, Scientific observations, National News(current), International issues, Tribes, Indian Culture, Geography of India, Economic issues in India, Handicrafts, Countries and capitals, Important Dates, World organizations, Famous Places in India, Sculptures, Musical Instruments, Famous Places, Artists, Tourism spots of Historical Importance, Music & Literature, National Dance.

Current Affairs: Budget, History, General Knowledge, Book, Abbreviations, Authors, International & National Organizations, Environment, Indian Economy, Awards, General Science, Geography.

General Mental Ability: On General Mental Ability questions will be set on logical perception, understanding, natural conclusion etc. **Numerical Ability:** Questions on Numerical Ability will be similar to that the Compulsory Mathematics paper at the Madhyamik Examination

Knowledge of Computer:

Computer Peripherals: Input and Output Devices, Different types of Display, Pointing Devices, Types of Printers, Motherboards, Power Supplies, CPU, BIOS and CMOS, Portable Computers, Webcams, Bluetooth device, types of memories & storage devices,

MS Office tools: MS-Word, MS-Excel & MS-Power Point, Operating System Fundamentals: Installing and Upgrading Windows, Troubleshooting Windows, Wireless Networking, Internet Handling, Securing computers.

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Pharm

POST: Pharmacist (Group-C, PB-1, GP-Rs. 2800/-)

SCHEME OF EXAMINATION: The examination will consist of a Competitive Examination Part-I and Part-II

Exam Pattern

Examination	Part	Subject	Marks		Duration
I	I	English, GK & Current Affairs, General Mental Ability and Numerical Ability	20	100	60 minutes
	II	Pharmacy	80		

Examination: I Written Exam of 100 marks (MCQ based) comprises the syllabus of Part I&II.

Detail Syllabus:

Part-I

English: Substitution, Spotting Errors, Prepositions, Joining Sentences, Error Correction (Phrase in Bold), Completion, Sentence, Spelling Test, Fill in the blanks, Synonyms, Sentence Arrangement, Antonyms, Idioms and Phrases, Sentence Improvement, Active and Passive Voice, Error Correction (Underlined Part), Transformation, Para Completion, Passage Completion, Substitution.

General Knowledge: About India and it's neighbouring countries, New inventions, Books And Author, Science and innovations, Political Science, Scientific observations, National News(current), International issues, Tribes, Indian Culture, Geography of India, Economic issues in India, Handicrafts, Countries and capitals, Important Dates, World organizations, Famous Places in India, Sculptures, Musical Instruments, Famous Places, Artists, Tourism spots of Historical Importance, Music & Literature, National Dance.

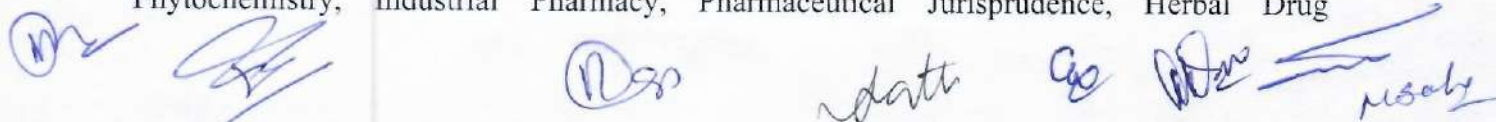
Current Affairs: Budget, History, General Knowledge, Book, Abbreviations, Authors, International & National Organizations, Environment, Indian Economy, Awards, General Science, Geography.

General Mental Ability: On General Mental Ability questions will be set on logical perception, understanding, natural conclusion etc. **Numerical Ability:** Questions on Numerical Ability will be similar to that the Compulsory Mathematics paper at the Madhyamik / Matriculation Examination

Part-II

Pharmacy:

Human Anatomy and Physiology, Pharmaceutical Analysis, Pharmaceutics, Pharmaceutical Inorganic Chemistry, Remedial Biology/Remedial Mathematics, Pharmaceutical Organic Chemistry, Biochemistry, Pathophysiology, Computer Applications in Pharmacy, Environmental sciences, Physical Pharmaceutics, Pharmaceutical Microbiology, Pharmaceutical Engineering, Medicinal Chemistry, Pharmacology, Pharmacognosy and Phytochemistry, Industrial Pharmacy, Pharmaceutical Jurisprudence, Herbal Drug



Technology, Biopharmaceutics and Pharmacokinetics, Pharmaceutical Biotechnology, Quality Assurance, Instrumental Methods of Analysis, Pharmacy Practice, Novel Drug Delivery System, Biostatistics and Research Methodology, Social and Preventive Pharmacy, Pharma Marketing Management, Pharmaceutical Regulatory Science, Pharmacovigilance, Quality Control and Standardization of Herbals, Computer Aided Drug Design, Cell and Molecular Biology, Cosmetic Science, Experimental Pharmacology, Advanced Instrumentation Techniques, Dietary Supplements and Nutraceuticals

Examination	Part	Subject	Media	Duration
I	I	English & Hindi	100	30 minutes
	II	Pharmaceutics		
II	I	English & Hindi	100	30 minutes
	II	Pharmaceutics		

(Signature)

Examination: Winter Exams of 1st year B.Pharm. (2019-2020) at JECRC
 Date: 15/12/2019
 Time: 10:30 AM
 Subject: English & Hindi (Part I)
 Question 1: Write a short note on the following:
 (a) The importance of English in the pharmaceutical industry.
 (b) The role of Hindi in the pharmaceutical industry.
 Question 2: Write a short note on the following:
 (a) The importance of Hindi in the pharmaceutical industry.
 (b) The role of English in the pharmaceutical industry.
 Question 3: Write a short note on the following:
 (a) The importance of English in the pharmaceutical industry.
 (b) The role of Hindi in the pharmaceutical industry.
 Question 4: Write a short note on the following:
 (a) The importance of Hindi in the pharmaceutical industry.
 (b) The role of English in the pharmaceutical industry.
 Question 5: Write a short note on the following:
 (a) The importance of English in the pharmaceutical industry.
 (b) The role of Hindi in the pharmaceutical industry.

Examination: Summer Exams of 1st year B.Pharm. (2019-2020) at JECRC
 Date: 15/12/2019
 Time: 10:30 AM
 Subject: English & Hindi (Part II)
 Question 1: Write a short note on the following:
 (a) The importance of English in the pharmaceutical industry.
 (b) The role of Hindi in the pharmaceutical industry.
 Question 2: Write a short note on the following:
 (a) The importance of Hindi in the pharmaceutical industry.
 (b) The role of English in the pharmaceutical industry.
 Question 3: Write a short note on the following:
 (a) The importance of English in the pharmaceutical industry.
 (b) The role of Hindi in the pharmaceutical industry.
 Question 4: Write a short note on the following:
 (a) The importance of Hindi in the pharmaceutical industry.
 (b) The role of English in the pharmaceutical industry.
 Question 5: Write a short note on the following:
 (a) The importance of English in the pharmaceutical industry.
 (b) The role of Hindi in the pharmaceutical industry.

POST: Senior Technician (Group-C, PB-1, GP-Rs. 2400/-)

SCHEME OF EXAMINATION: The examination will consist of a Competitive Examination of Part-I and Part-II

Exam Pattern

Examination	Part	Subject	Marks		Duration
I	I	English, GK & Current Affairs, General Mental Ability and Numerical Ability	20	100	60 minutes
	II	Science and Engineering	80		

Detail Syllabus:

Part-I

English: Substitution, Spotting Errors, Prepositions, Joining Sentences, Error Correction (Phrase in Bold), Completion, Sentence, Spelling Test, Fill in the blanks, Synonyms, Sentence Arrangement, Antonyms, Idioms and Phrases, Sentence Improvement, Active and Passive Voice, Error Correction (Underlined Part), Transformation, Para Completion, Passage Completion, Substitution.

General Knowledge: About India and it's neighbouring countries, New inventions, Books And Author, Science and innovations, Political Science, Scientific observations, National News(current), International issues, Tribes, Indian Culture, Geography of India, Economic issues in India, Handicrafts, Countries and capitals, Important Dates, World organizations, Famous Places in India, Sculptures, Musical Instruments, Famous Places, Artists, Tourism spots of Historical Importance, Music & Literature, National Dance.

Current Affairs: Budget, History, General Knowledge, Book, Abbreviations, Authors, International & National Organizations, Environment, Indian Economy, Awards, General Science, Geography.

General Mental Ability: On General Mental Ability questions will be set on logical perception, understanding, natural conclusion etc.

Numerical Ability: Questions on Numerical Ability will be similar to that the Compulsory Mathematics paper at the Madhyamik / Matriculation Examination

Part-II

Mathematics: Matric level questions on Number System, Fundamental Arithmetical Operations, Algebra, Geometry, Mensuration, Trigonometry and Statistical Charts.

Science : Matric level questions on Physical and Chemical Substances – nature and Behavior, World of Living, Natural Phenomenon, Effects of Current and Natural Resources, Solution of electrostatic and magneto static problems including boundary value problems, Electromagnetic waves and their reflection, refraction, interference, diffraction and polarization, laws of chemical combination, Dalton's atomic theory: concept of elements, atoms and molecules. Atomic and molecular masses, mole concept and molar mass.



Computer awareness:

Basic knowledge of Computer Applications, viz; MS Word, MS Excel, Power Point etc. Internet, MS-DOS. Computer Networks & Communication: LAN, MAN, WAN, Network Topologies.

Engineering Knowledge:

System of forces, coplanar concurrent force system, composition and resolution of force, equilibrium of rigid bodies, free body diagram. Centre of gravity and moment of inertia. Concept of stress, shear, bending and torsion. Measuring Instruments & gauges. Network Laws for D.C. Networks Kirchhoff's laws. Delta-Star and Star-Delta conversion.

Deo

POST: Student Activity & Sports Assistant (Group-B, PB-2, GP-Rs. 4200/-)

SCHEME OF EXAMINATION: The examination will consist of a Competitive Examination of Part-I and Part-II

Exam Pattern

Examination	Part	Subject	Marks		Duration
1	I	English, GK & Current Affairs, General Mental Ability and Numerical Ability	20	100	60 minutes
	II	Physical Education & Sports	80		

Recruitment process will comprise of two stages as follows:

1. Examination: 1 Written Exam of 100 marks (MCQ based) comprises the syllabus of Part I&II.

Detail Syllabus:**Part-I**

English: Substitution, Spotting Errors, Prepositions, Joining Sentences, Error Correction (Phrase in Bold), Completion, Sentence, Spelling Test, Fill in the blanks, Synonyms, Sentence Arrangement, Antonyms, Idioms and Phrases, Sentence Improvement, Active and Passive Voice, Error Correction (Underlined Part), Transformation, Para Completion, Passage Completion, Substitution.

General Knowledge: About India and it's neighbouring countries, New inventions, Books And Author, Science and innovations, Political Science, Scientific observations, National News(current), International issues, Tribes, Indian Culture, Geography of India, Economic issues in India, Handicrafts, Countries and capitals, Important Dates, World organizations, Famous Places in India, Sculptures, Musical Instruments, Famous Places, Artists, Tourism spots of Historical Importance, Music & Literature, National Dance.

Current Affairs: Budget, History, General Knowledge, Book, Abbreviations, Authors, International & National Organizations, Environment, Indian Economy, Awards, General Science, Geography.

General Mental Ability: On General Mental Ability questions will be set on logical perception, understanding, natural conclusion etc. **Numerical Ability:** Questions on Numerical Ability will be similar to that the Compulsory Mathematics paper at the Madhyamik / Matriculation Examination of Tripura Board of Secondary Education.

Part II

Physical Education & Sports: Physical Education, Health and Health Education, Physical Fitness, Warming up & Cool down Sports Training. First Aid, Leadership and its Training in Physical Education. Intramural, extramural, Tournaments. Camp and Athletic Meet. Yoga, Olympic Movement, Fit India Movement, NSS and NCC

Mr. [Signature] [Signature] [Signature] [Signature] [Signature] [Signature]

POST: Technical Assistant (Group-B, PB-2, GP-Rs. 4200/-)

SCHEME OF EXAMINATION: The examination will consist of a Competitive Examination of Part-I and Part-II

Exam Pattern

Examination	Part	Subject	Marks	Duration
1	I	English, GK & Current Affairs, General Mental Ability and Numerical Ability	20	60 minutes
	II	Syllabus of different department related to concerned lab	80	

Recruitment process will comprise of two stages as follows:

Written Exam of 100 marks (MCQ based) comprises the syllabus of Part I&II.

Part II syllabus consist of 3(three) different groups (Group-A, Group-B, Group-C). Candidate need to choose any one group from these 3 groups as per own choice.

Detail Syllabus:

Part-I

English: Substitution, Spotting Errors, Prepositions, Joining Sentences, Error Correction (Phrase in Bold), Completion, Sentence, Spelling Test, Fill in the blanks, Synonyms, Sentence Arrangement, Antonyms, Idioms and Phrases, Sentence Improvement, Active and Passive Voice, Error Correction (Underlined Part), Transformation, Para Completion, Passage Completion, Substitution.

General Knowledge: About India and it's neighbouring countries, New inventions, Books And Author, Science and innovations, Political Science, Scientific observations, National News(current), International issues, Tribes, Indian Culture, Geography of India, Economic issues in India, Handicrafts, Countries and capitals, Important Dates, World organizations, Famous Places in India, Sculptures, Musical Instruments, Famous Places, Artists, Tourism spots of Historical Importance, Music & Literature, National Dance.

Current Affairs: Budget, History, General Knowledge, Book, Abbreviations, Authors, International & National Organizations, Environment, Indian Economy, Awards, General Science, Geography.

General Mental Ability: On General Mental Ability questions will be set on logical perception, understanding, natural conclusion etc.

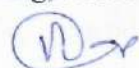
Numerical Ability: Questions on Numerical Ability will be similar to that the Compulsory Mathematics paper at the Madhyamik / Matriculation Examination

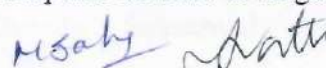
Part-II

Group-A

(Electrical Engineering, Electronics and Communication Engineering, Electronics and Instrumentation Engineering, MCA and Computer Science & Engineering)







Basic Knowledge on Engineering Mechanics: System of forces, coplanar concurrent force system, composition and resolution of force, equilibrium of rigid bodies, free body diagram. Lami's theorem. Analysis of framed structure: Reaction in beam with different end conditions, determination of reactions in members of trusses: a) Analytical methods b) Graphical method, Centre of gravity and moment of inertia: Concept of C.G and centroid, position of centroid, theorem of parallel and perpendicular axes, moment of inertia of simple geometrical figures. Stress: Concept of stress, simple stresses, tensile, compressive, shear, bending and torsion, stress-strain curves, elongation of bars, composite bars, thermal stresses, elastic constants. Friction: Introduction, Laws of Coulomb friction, Equilibrium of bodies involving dry friction belt friction.

Basic Electrical Science:- Network Laws and Theorems: Network Laws for D.C. networks - Kirchhoff's laws. Node voltage and mesh current methods, Delta-Star and Star-Delta conversion. Classification of network elements. Principle of Superposition. Thevenin's and Norton's Theorems. Maximum Power Transfer Theorem. Single Phase A.C. Circuits: Single phase EMF generation. Effective and Average values of sinusoids and determination of form factor, Phasor diagram, Symbolic notation. phasor in polar, rectangular and exponential form. Resistive, Inductive and Capacitive circuits. A.C. series and parallel circuits. Analysis of simple RLC-series circuits. Solution of parallel circuits - resonance. Q factor. Three Phase A.C. Circuits: Three -phase EMF generation. Delta and star connection, Line and phase quantities and relations. Solution of 3-phase circuits - balanced voltage and balanced load. Phasor diagrams, Measurement of power in three-phase circuits. Magnetic Circuits and Transformer: Analogy between electric and magnetic circuits. Magnetic Circuits, B-H Curve. Hysteresis Loop, Solutions of simple problems. Inductances in series and parallel, Hysteresis and Eddy current losses. Transformers- constructional details. EMF equation, rating and phasor diagrams on no-load and full-load. Equivalent circuits. Regulation and efficiency. Open-circuit and short-circuit tests. Electrical Machines: Basic principal of EMF generation. three phase induction motors and their applications. Electrical Instruments: Basic principles of Moving iron. PMMC. Dynamometer and Induction type instruments. Torque equation, Dynamometer type Wattmeter, Induction type energy meter.

Basic Electronics & Communication Science:- Electronic Instruments: Role and importance of general-purpose test instruments, Cathode Ray Oscilloscope (CRO): Block diagram and working of CRO, Cathode Ray Tube (CRT), Amplitude, frequency and phase measurements using CRO. Semiconductor Diodes and Applications: Review of PN Junction Diode. Diode Equivalent Circuits, V-I Characteristics, Ideal diode, Zener Diode, Light-Emitting Diode (LED), Varactor Diode, Power Diode, Tunnel Diode, Photodiode. Regulated Power Supply: Block diagram of power supply, Halfwave, Fullwave and Bridge rectifiers, Passive filters, Regulators. Line regulator and load regulators, Zener Diode as voltage regulator, concept of switched mode power supply (SMPS). Bipolar Junction Transistor: Physical structure and modes of operation, transistor configurations, Load line analysis, Transistor as a switch and as an amplifier. frequency response and bandwidth. Transistor Biasing, Introduction to MOSFET. Feedback and Oscillators: Concept of feedback. Positive and negative feedback, advantages of negative feedback, Basic principles of sinusoidal oscillators, Oscillation criteria, LC and RC oscillators. Operational Amplifiers: Ideal Op-amp, Equivalent model. Open and close Inverting, non-inverting and differential configurations. Applications of op-amp as summing amplifier, differentiator and integrator. Digital Electronics: Number system and logic gates. NAND and NOR as universal gates, combinational Circuits: Half adder, Full adder, MUX. DEMUX, Encoder. Decoder. Sequential circuits: SR and JK flip-flops,

idea about ROM, RAM, and EPROM, Introduction of microprocessor and microcontroller and their Evolution. Open Source Hardware Platforms, Introduction to IoT, sensors and transducers, control, measurement.

Basic knowledge on Computer Science: Introduction to Computers: Generation of computers. Characteristic and classifications of computers. Components of Computer: CPU, Various I/O Devices, Memory & its types, (Memory Hierarchy, Storage Media), Computer Software and their types, Operating System. Computer Networks & Communication: LAN, MAN, WAN, Network Topologies. Modes of Data Communication. Introduction to internet and its Safeguard: Internet Addresses. Domain Name System. URL. Web Browsers Search Engines, Firewalls, Antivirus, Translators, Algorithm and flow chart: algorithm and flow chart characteristics, sketching flowchart of various problems, Basics of C Programming. Introduction to programming paradigms, Structure of C program, C programming: Data Types, Storage classes, Constants, Enumeration Constants, Keywords, Operators: Precedence and Associativity, Expressions, Input/Output statements, Assignment statements, Decision making statements, Switch statement, Looping statements, Pre-processor directives, Compilation process.

Group-B

(Civil Engineering, Mechanical Engineering, Production Engineering)

Basic Knowledge on Engineering Mechanics: System of forces, coplanar concurrent force system, composition and resolution of force, equilibrium of rigid bodies, free body diagram. Lami's theorem. Analysis of framed structure: Reaction in beam with different end conditions, determination of reactions in members of trusses: a) Analytical methods b) Graphical method, Centre of gravity and moment of inertia: Concept of C.G and centroid, position of centroid, theorem of parallel and perpendicular axes, moment of inertia of simple geometrical figures. Stress: Concept of stress, simple stresses, tensile, compressive, shear, bending and torsion, stress-strain curves, elongation of bars, composite bars, thermal stresses, elastic constants. Friction: Introduction, Laws of Coulomb friction, Equilibrium of bodies involving dry friction belt friction.

Basic Civil Engineering: BMD and SFD for structures. Different construction materials and their properties - different types of cement - grades of cements - tests on cement and other construction materials. Types of modern building materials such as ceramic products - glass - metals and plastics. Preparation of mortar and cement concrete. Types of foundations. Different methods of pointing, plastering and termite proofing. Classifications of Highways, Types of Pavement - Flexible and Rigid Pavements - Parking. Water supply - Public water supply system and demand - types of demand - per capita demand - prediction of population. Filtration - R.O process, sanitary landfill, Methods of Irrigation- Advantages and disadvantages of irrigation.

Fundamentals of Thermal Science: Introduction and scope of thermodynamics, thermodynamics properties, forms of energy, thermodynamic systems and control volume, steady flow systems, types of work, thermodynamic processes, laws of thermodynamics, Carnot theorem, concept of enthalpy & entropy. Introduction to I.C. Engines: Two-four stroke SI and CI engines. Otto cycle, Diesel Basic idea of refrigeration and Air Conditioning cycle.

Basic Knowledge on Workshop Science: Measuring Instruments & gauges, Introduction to manufacturing processes, Basic terminology used Economical and technological considerations. Materials properties and their application: Different engineering materials, Properties, Nomenclature, Basics of heat treatment. Fitting: Introduction, Tools used in fitting, measuring and marking tools, the process of making sawing, Filing, Tapping and die, Introduction to drills. Welding: Introduction, Various welding processes with brief introduction. Electric Arc welding, Arc welding procedure, List of equipment for electric arc welding, Gas welding process and equipment, Soldering and Brazing process. Sheet metal working: Introduction, Types of sheets (ferrous/non-ferrous), Standard sheet sizes and their measurement, Tools used in sheet metal. Metal cutting: Introduction, Classification of machine tools and cutting tools, Basic operations on lathe. Drilling, Shaper, Milling, Cutting tool material, Work-holding devices, Cutting parameters i.e. speed, feed and depth of cut.

Basic knowledge on Computer Science: Introduction to Computers: Generation of computers. Characteristic and classifications of computers. Components of Computer: CPU, Various I/O Devices, Memory & its types, (Memory Hierarchy, Storage Media), Computer Software and their types, Operating System. Computer Networks & Communication: LAN, MAN, WAN, Network Topologies. Modes of Data Communication. Introduction to internet and its Safeguard: Internet Addresses. Domain Name System. URL. Web Browsers Search Engines, Firewalls, Antivirus, Translators, Algorithm and flow chart: algorithm and flow chart characteristics, sketching flowchart of various problems, Basics of C Programming. Introduction to programming paradigms, Structure of C program, C programming: Data Types, Storage classes, Constants, Enumeration Constants, Keywords, Operators: Precedence and Associativity, Expressions, Input/Output statements, Assignment statements, Decision making statements, Switch statement, Looping statements, Pre-processor directives, Compilation process.

Group-C

(Bio Engineering, Chemical Engineering, Science)

Basic Knowledge on Engineering Mechanics: System of forces, coplanar concurrent force system, composition and resolution of force, equilibrium of rigid bodies, free body diagram. Lami's theorem. Analysis of framed structure: Reaction in beam with different end conditions, determination of reactions in members of trusses: a) Analytical methods b) Graphical method, Centre of gravity and moment of inertia: Concept of C.G and centroid, position of centroid, theorem of parallel and perpendicular axes, moment of inertia of simple geometrical figures. Stress: Concept of stress, simple stresses, tensile, compressive, shear, bending and torsion, stress-strain curves, elongation of bars, composite bars, thermal stresses, elastic constants. Friction: Introduction, Laws of Coulomb friction, Equilibrium of bodies involving dry friction belt friction.

Basic knowledge on Bio Engineering: Viruses- structure and classification; Microbial classification and diversity (bacterial, algal and fungal); Methods in microbiology; Microbial growth and nutrition; Aerobic and anaerobic respiration; Nitrogen fixation; Microbial diseases. Principles of microscopy- light, electron, fluorescent and confocal; Restriction and modification enzymes; Vectors; plasmid, bacteriophage and other viral vectors, cosmids, DNA sequencing; Production of biomass and primary/secondary metabolites; Bio-fuels, industrial enzymes, antibiotics; Large scale production and

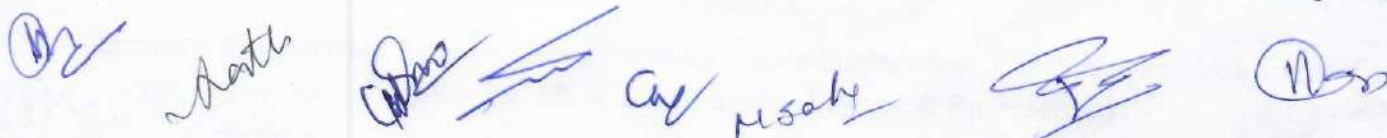
purification of recombinant proteins; Industrial application of membrane based bioseparation methods; Immobilization of biocatalysts (enzymes and cells) for bioconversion processes.

Basic knowledge on Chemical Engineering: Introduction to physical quantities and units, Measurement of volumetric flow and mass flow rates, chemical equation and stoichiometry, Law of Thermodynamics and its applications, Fluid viscosity for different fluids - its measurement, Pumps, motors, Modes of heat transfer: conduction, convection, radiation, Heat transfer in heat exchangers, condensers, evaporators, Measurement of fuel properties - flash and fire point, calorific value, Calculation of reaction rates and kinetics, Mass transfer operations and calculation in distillation column, solid-liquid extraction, adsorption coefficients, Unit operations and processes in pollution control of air, water, Concept of safety and fire hazards.

Basic Concepts of Physics: Electromagnetic Theory: Solution of electrostatic and magnetostatic problems including boundary value problems; dielectrics and conductors; Biot-Savart's and Ampere's laws; Faraday's law; Maxwell's equations; scalar and vector potentials; Electromagnetic waves and their reflection, refraction, interference, diffraction and polarization. Poynting vector, Poynting theorem, energy and momentum of electromagnetic waves.
Solid State Physics: Elements of crystallography; diffraction methods for structure determination; bonding in solids; elastic properties of solids; defects in crystals; lattice vibrations and thermal properties of solids; free electron theory; band theory of solids; metals, semiconductors and insulators; transport properties; optical, dielectric and magnetic properties of solids; elements of superconductivity.

Basic Concepts of Chemistry: General Introduction: Importance and scope of chemistry. Nature of matter, laws of chemical combination, Dalton's atomic theory: concept of elements, atoms and molecules. Atomic and molecular masses, mole concept and molar mass, percentage composition, empirical and molecular formula, chemical reactions, stoichiometry and calculations based on stoichiometry. Classification of materials into conducting and insulating materials through a brief reference to atomic structure, Conducting Materials, Insulating Materials, Semi-conductor Material. Adsorption - physisorption and chemisorption, factors affecting adsorption of gases on solids, some important polymers.

Basic knowledge on Computer Science: Introduction to Computers: Generation of computers. Characteristic and classifications of computers. Components of Computer: CPU, Various I/O Devices, Memory & its types, (Memory Hierarchy, Storage Media), Computer Software and their types, Operating System. Computer Networks & Communication: LAN, MAN, WAN, Network Topologies. Modes of Data Communication. Introduction to internet and its Safeguard: Internet Addresses. Domain Name System. URL. Web Browsers Search Engines, Firewalls, Antivirus, Translators, Algorithm and flow chart: algorithm and flow chart characteristics, sketching flowchart of various problems, Basics of C Programming. Introduction to programming paradigms, Structure of C program, C programming: Data Types, Storage classes, Constants, Enumeration Constants, Keywords, Operators: Precedence and Associativity, Expressions, Input/Output statements, Assignment statements, Decision making statements, Switch statement, Looping statements, Pre-processor directives, Compilation process.



POST: POST: Technician (Group-C, PB-1, GP-Rs. 2000/-)

SCHEME OF EXAMINATION: The examination will consist of a Competitive Examination of Part-I and Part-II

Exam Pattern

Examination	Part	Subject	Marks		Duration
1	I	English, GK & Current Affairs, General Mental Ability and Numerical Ability	40	100	60 minutes
	II	Science and Engineering	60		

Detail Syllabus:

Part-I

English: Substitution, Spotting Errors, Prepositions, Joining Sentences, Error Correction (Phrase in Bold), Completion, Sentence, Spelling Test, Fill in the blanks, Synonyms, Sentence Arrangement, Antonyms, Idioms and Phrases, Sentence Improvement, Active and Passive Voice, Error Correction (Underlined Part), Transformation, Para Completion, Passage Completion, Substitution.

General Knowledge: About India and it's neighbouring countries, New inventions, Books And Author, Science and innovations, Political Science, Scientific observations, National News(current), International issues, Tribes, Indian Culture, Geography of India, Economic issues in India, Handicrafts, Countries and capitals, Important Dates, World organizations, Famous Places in India, Sculptures, Musical Instruments, Famous Places, Artists, Tourism spots of Historical Importance, Music & Literature, National Dance.

Current Affairs: Budget, History, General Knowledge, Book, Abbreviations, Authors, International & National Organizations, Environment, Indian Economy, Awards, General Science, Geography.

General Mental Ability: On General Mental Ability questions will be set on logical perception, understanding, natural conclusion etc.

Numerical Ability: Questions on Numerical Ability will be similar to that the Compulsory Mathematics paper at the Madhyamik / Matriculation Examination

Part-II

Mathematics: Matric level questions on Number System, Fundamental Arithmetical Operations, Algebra, Geometry, Mensuration, Trigonometry and Statistical Charts.

Science : Matric level questions on Physical and Chemical Substances – nature and Behavior, World of Living, Natural Phenomenon, Effects of Current and Natural Resources, Solution of electrostatic and magneto static problems including boundary value problems, Electromagnetic waves and their reflection, refraction, interference, diffraction and polarization, laws of chemical combination, Dalton's atomic theory: concept of elements, atoms and molecules. Atomic and molecular masses, mole concept and molar mass.

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Computer awareness:

Basic knowledge of Computer Applications, viz; MS Word, MS Excel, Power Point etc. Internet, MS-DOS. Computer Networks & Communication: LAN, MAN, WAN, Network Topologies.

Engineering Knowledge:

System of forces, coplanar concurrent force system, composition and resolution of force, equilibrium of rigid bodies, free body diagram. Centre of gravity and moment of inertia. Concept of stress, shear, bending and torsion. Measuring Instruments & gauges. Network Laws for D.C. Networks Kirchhoff's laws. Delta-Star and Star-Delta conversion.

Den



राष्ट्रीय प्रौद्योगिकी संस्थान अगरतला
National Institute of Technology Agartala

अगरतला/ AGARTALA - 799 046 (त्रिपुरा/ TRIPURA)

ANNEXURE C

TENTATIVE DISTRIBUTION OF POSTS DEPARTMENT – WISE.

1. Post name: Junior Engineer, Pay Level: 6

Field/Discipline	No of Posts
Civil Engineering	3
Electrical Engineering	2
Total	5

2. Post name: Technical Assistant, Pay Level: 6

Field/Discipline	No of Posts
Chemical Engineering	1
Civil Engineering	1
Computer Science & Engineering/ Computing & ICT Unit / MIS	2
Electrical Engineering	1
Electronics and Communication/ Instrumentation Engineering	1
Mechanical/ Production Engineering	1
Total	7

3. Post name: Technician, Pay Level: 3

Field/Discipline	No of Posts
Bio Engineering	2
Chemical Engineering	1
Civil Engineering	2
Computer Science & Engineering/ Computing & ICT Unit/ MIS	3
Electrical Engineering	2
Electronics and Communication/ Instrumentation Engineering	2
Mechanical/ Production Engineering	2
Total	14

5. Post name: Senior Technician, Pay Level: 4

Field/ Discipline	No of Posts
Bio Engineering	1
Chemical Engineering	1
Civil Engineering	1
Computer Science & Engineering/ Computing & ICT Unit / MIS	1
Electrical Engineering	1
Electronics and Communication/ Instrumentation Engineering	2
Mechanical/ Production Engineering	2
Total	9

Certificate regarding physical limitation in an examinee to write

This is to certify that, I have examined Mr/Ms/Mrs _____ (name of the candidate with disability), a person with _____ (nature and percentage of disability as mentioned in the certificate of disability), S/o/D/o _____, a resident of _____ (Village/District/State) and to state that he/she has physical limitation which hampers his/her writing capabilities owing to his/her disability.

Signature

Chief Medical Officer/Civil Surgeon/ Medical Superintendent of a
Government health care institution

Name & Designation.

Name of Government Hospital/Health Care Centre with Seal

Place:

Date:

Note:

Certificate should be given by a specialist of the relevant stream/disability (eg. Visual impairment – Ophthalmologist, Locomotor disability – Prthopaedic specialist/PMR).

Letter of Undertaking for Using Own Scribe

I _____, a candidate with _____ (name of the disability) appearing for the _____ (name of the examination) bearing Roll No. _____ at _____ (name of the centre) in the District _____, _____ (name of the State). My qualification is _____.

I do hereby state that _____ (name of the scribe) will provide the service of scribe/reader/lab assistant for the undersigned for taking the aforesaid examination.

I do hereby undertake that his qualification is _____. In case, subsequently it is found that his qualification is not as declared by the undersigned and is beyond my qualification, I shall forfeit my right to the post and claims relating thereto.

(Signature of the candidate with Disability)

Place:

Date: