



राष्ट्रीय प्रौद्योगिकी संस्थान राउरकेला
NATIONAL INSTITUTE OF TECHNOLOGY ROURKELA

NITR/ES/2023/L/1254

19th May, 2023

**SELECTION PROCEDURE AND SYLLABUS FOR DIFFERENT POSTS AGAINST
NON-TEACHING RECRUITMENT ADVERTISEMENT NO. NITR/ES/08/2022**

LIBRARIAN (PL – 14)

Mode of Selection: *Presentation-cum-Personal Interview.*

The presentation shall be restricted to a maximum of 05 slides on the following points:

- Work experience and present work profile
- Research Paper and related publications on Library science
- Events/workshops/seminars organized on the topics related to Library, if any
- Innovations done at the workplace
- Vision Plan for transformation of the Institute Library (BPCL) of NIT Rourkela

Final Merit:

Based on the performance of **Presentation-cum-Personal Interview.**

PRINCIPAL SCIENTIFIC OFFICER (PL – 14)

Mode of Selection: *Presentation-cum-Personal Interview.*

The presentation shall be restricted to a maximum of 05 slides on the following points:

- Work experience and present work profile
- Specialization and Expertise
- Innovations done at the workplace
- Vision Plan for transformation of the Scientific/Technical ecosystem of NIT Rourkela

Final Merit:

Based on the performance of **Presentation-cum-Personal Interview.**

SUPERINTENDING ENGINEER (PL – 13)

Mode of Selection: *Presentation-cum-Personal Interview.*

The presentation shall be restricted to a maximum of 05 slides on the following points:

- Work experience and present work profile
- Major Project/consultancy handled with value and your role
- Innovations done at the workplace
- Your vision as Head of the Estate Management Division of NIT Rourkela

Final Merit:

Based on the performance of **Presentation-cum-Personal Interview.**

DEPUTY REGISTRAR (PL – 12)

Mode of Selection: *Presentation-cum-Personal Interview.*

The presentation shall be restricted to a maximum of 05 slides on the following points:

- Work experience and present work profile

- ii) Innovative ideas introduced in the workplace
- iii) Your vision as a Deputy Registrar in the administration of an Academic Institute (one may choose any one or more areas, i.e., Academic administration/Finance Management/General Administration/Procurement or Consultancy Management)

Final Merit:

Based on the performance of **Presentation-cum-Personal Interview.**

SENIOR SCIENTIFIC OFFICER (PL – 12)

Mode of Selection: *Presentation-cum-Personal Interview.*

The presentation shall be restricted to a maximum of 05 slides on the following points:

- i) Work experience and present work profile
- ii) Specialization and Expertise
- iii) Major assignment handled and your role
- iv) Innovative ideas introduced for the transformation of the Scientific/Technical ecosystem of your workplace

Final Merit:

Based on the performance of **Presentation-cum-Personal Interview.**

SENIOR EXECUTIVE ENGINEER (PL – 12)

Mode of Selection: *Presentation-cum-Personal Interview.*

The presentation shall be restricted to a maximum of 05 slides on the following points:

- i) Work experience and present work profile
- ii) Major Project/consultancy handled with value and your role
- iii) Innovative ideas introduced at the workplace

Final Merit:

Based on the performance of **Presentation-cum-Personal Interview.**

SCIENTIFIC OFFICER (PL – 10)

Mode of Selection: *Written Test, Trade Test & Personal Interview.*

Written Test (150 marks)

The written Test will be of 150 marks, and the duration of the test will be for **Two Hours**. The medium of Language will be English only.

There shall be 150 Objective Type Multiple Choice Questions (MCQs) of 01 mark each and consisting of:

- i) General Aptitude such as Science, Arithmetic, Reasoning, English, General Awareness and Computer (**60 questions**)
- ii) Professional knowledge of Physics, Chemistry, Mathematics and Computer Science (**90 questions**)

There shall be a 0.25 negative mark for each wrong answer. Each correct answer will carry a 01 mark. Un-attempted questions will be awarded Zero marks.

Trade Test (100 marks)

The Trade test will be domain-specific and shall be conducted to check the practical knowledge



in the respective discipline, such as maintenance of scientific equipment, system administration and software development.

The number of candidates qualifying in the written test for Trade and/or Skill Test will be in the ratio of 1:7 on merit. That is, for every 1 post, 7 candidates will be called for the Trade and/or Skill Test on merit, i.e., seven times the number of vacancies.

The candidates securing less than 30% in Written Test or Trade Test shall be disqualified.

Final Merit:

The final merit list will be prepared based on the Written Test, Trade Test and Personal Interview. The weightage given to each is 40% (Written Test), 30% (Trade Test) and 30% (Personal Interview).

STUDENTS ACTIVITY & SPORTS (SAS) OFFICER(PL – 10)

Mode of Selection: *Physical Fitness Test & Skill Test, Written Test and Personal Interview.*

Physical Fitness Test & Skill Test:

(All candidates shall be required to produce a medical certificate from a Registered Medical Practitioner certifying that they are medically fit for undertaking such tests, failing which they will not be allowed to participate in the selection process)

The candidate would be required to undertake the physical fitness test by the following norms, and the test will be qualifying in nature for shortlisting candidates for further selection process:

NORMS FOR MEN		NORMS FOR WOMEN	
12 MINUTES RUN/WALK TEST		8 MINUTES RUN / WALK TEST	
≤ 30 years	> 30 ≤35 years	≤ 30 years	> 30 ≤35 years
1800 meters	1500 meters	1000 meters	800 meters

Skill Test (50 marks)

The skill test shall be conducted to check the candidate's practical knowledge in handling various processes associated with Physical Education and Sports (major games).

Written Test (150 marks)

The written test will be for 150 marks, and the duration of the test will be for 2 ½ hours. This will comprise Section –I (Objective) and Section – II (Descriptive) with weightage of 50 marks and 100 marks, respectively. The medium of Language will be English only.

Section – I

There shall be 50 Objective Type Multiple Choice Questions (MCQs) of 01 mark each and consisting of General Aptitude such as Science, Arithmetic, Reasoning, English, General Awareness and Computer (50 marks).

There shall be a 0.25 negative mark for each wrong answer. Each correct answer will carry a 01 mark. Un-attempted questions will be awarded Zero marks.

Section – II (Descriptive Type)

Professional knowledge, i.e., History of Sports and sports personalities, Physical Education and Sports Coaching principles, including knowledge of Anatomy / Exercise Physiology etc. Athletic Injury & its prevention, Sports Psychology, Sports Management, i.e., Tournament, Budgeting, Drafting of proposal etc. (100 marks).



The candidates securing less than 30% in the Written or Skill Test shall be disqualified.

The number of candidates qualifying in the written test for personal interviews will be in the ratio of 1:7 on merit. That is, for every 1 post, 7 candidates will be called for the personal interview on merit, i.e., seven times the number of vacancies.

Final Merit:

The final merit list will be prepared based on the Written Test, Skill Test and Personal Interview. The weightage given to each is 40% (Written Test), 30% (Skill Test) and 30% (Personal Interview).

ASSISTANT REGISTRAR (PL – 10)

Mode of Selection: *Written Test & Personal Interview.*

Written Test (200 marks)

The written Test will be of 200 marks, and the duration of the test will be for Three hours. This will comprise Section –I (Objective) and Section – II (Descriptive) with a weightage of 100 marks each. The medium of Language will be English only.

Section – I (OMR/Computer based)

There shall be 100 Objective Type Multiple Choice Questions (MCQs) of 01 mark each and consisting of:

- i) General Aptitude such as Arithmetic, Reasoning, English, and General Awareness (**40 questions**)
- ii) Professional knowledge of general administration, including academic-related matters, establishment matters, accounts, financial administration, RTI, Income Tax, purchase procedure and broad administrative structure of the NIT system, NITSER Act and statute, etc. (**60 questions**)

There shall be a 0.25 negative mark for each wrong answer. Each correct answer will carry a 01 mark. Un-attempted questions will be awarded Zero marks.

The Section – II answer sheet will be evaluated only if a candidate secures minimum qualifying marks in Section I.

Section – II (Descriptive Type)

Case study/Descriptive questions on official letters/ notifications/ noting and drafting, general administration including academic-related matters, establishment matters, accounts, financial administration, RTI, Income Tax, purchase procedure and broad administrative structure of NIT system, NITSER Act and Statute, etc.

The candidates securing less than 30% in Written Test shall be disqualified.

The number of candidates qualifying in the written test for personal interviews will be in the ratio of 1:7 on merit. That is, for every 1 post, 7 candidates will be called for the personal interview on merit, i.e., seven times the number of vacancies.

Final Merit:

The final merit list will be prepared based on the Written Test (combined scores of both Sections) and Personal Interview. The weightage given to each is 70% (Written Test) and 30% (Personal Interview).



MEDICAL OFFICER (PL – 10)

Mode of Selection:

Personal Interview only.

Final Merit:

Based on the performance of the **Personal Interview**.

SUPERINTENDENT (PL – 06)

Mode of Selection:

Written Test, Trade and/or Skill Test & Career.

Written Test (200 marks)

The written Test will be of 200 marks, and the duration of the test will be for Three Hours. This will comprise Section – I (Objective) of 100 marks and Section – II (Descriptive) of 100 marks. The medium of Language will be English only.

Section – I (OMR/Computer based)

There shall be 100 Objective Type Multiple Choice Questions (MCQs) of 01 mark each and consisting of:

- i) General Aptitude such as Arithmetic, Reasoning, English, and General Awareness **(50 questions)**
- ii) Basic Professional knowledge consisting of RTI Act, NPS, general administration, establishment matters, accounts, financial administration, income tax, purchase procedure and computer (50 questions)

There shall be a 0.25 negative mark for each wrong answer. Each correct answer will carry a 01 mark. Un-attempted questions will be awarded Zero marks.

The Section – II answer sheet will be evaluated only if a candidate secures minimum qualifying marks in Section I.

Section – II (Descriptive Type)

Descriptive questions on the Constitution of India and working of its political system, administration in Institutions of Higher Education, application of Office Procedures, Rules & Regulations, skill in noting/drafting, Essay and official letter writing.

Trade and/or Skill Test (50 marks)

Situation Test essay (200 or more words and to be typed in MS Word), where the candidates' reaction would be sought on a given situation test case and practical knowledge of Computers with special reference to knowledge of word processing and data analysis packages.

The number of candidates qualifying in the written test for Trade and/or Skill Test will be in the ratio of 1:7 on merit, i.e., seven times of number of vacancies. That is, for every 1 post, 7 candidates will be called for Trade and/or Skill Test on merit, i.e., seven times the number of vacancies.

The candidates securing less than 30% in Written Test or Trade/Skill Test shall be disqualified.

Final Merit:

The final merit list will be prepared based on the Written Test (combined scores of both



Sections), Trade/skill Test and Career. The weightage given to each is 60% (Written Test), 30% (Trade/skill Test) and 10% (Career).

TECHNICAL ASSISTANT (PL – 06)

Mode of Selection:

Written Test, Trade and/or Skill Test & Career.

Written Test (200 marks)

The written Test will be of 200 marks, and the duration of the test will be for Three Hours. This will comprise Section – I (Objective) of 100 marks and Section – II (Descriptive) of 100 marks. The medium of Language will be English only.

Section – I (OMR/Computer based)

There shall be 100 Objective Type Multiple Choice Questions (MCQs) of 01 mark each and consisting of:

- a) General Aptitude such as Science, Arithmetic, Reasoning, English, and General Awareness **(40 questions)**
- b) Graduation/Diploma level subject-specific laboratory-based practical questions **(60 questions)**. There will be subject-wise subgroups, and a candidate, based on his educational background, shall choose only one group to answer the questions:
 - i) Physics, Chemistry, Mathematics and Geology
 - ii) Life Science (Botany, Zoology & Bio-medical)
 - iii) Electrical & Electronics Engineering
 - iv) Mechanical, Mining, Metallurgical & Material and Ceramic Engineering
 - v) Computer Science & Information Technology
 - vi) Chemical & Food Engineering
 - vii) Civil Engineering, Planning & Architecture

There shall be a 0.25 negative mark for each wrong answer. Each correct answer will carry a 01 mark. Un-attempted questions will be awarded Zero marks.

The Section – II answer sheet will be evaluated only if a candidate secures minimum qualifying marks in Section I.

Section – II (Descriptive Type)

Graduation/Diploma level descriptive subject-specific questions. There will be subject-wise subgroups, and a candidate, based on his educational background, shall choose only one group to answer the questions:

- i) Physics, Chemistry, Mathematics and Geology
- ii) Life Science (Botany, Zoology & Bio-medical)
- iii) Electrical & Electronics Engineering
- iv) Mechanical, Mining, Metallurgical & Material and Ceramic Engineering
- v) Computer Science & Information Technology
- vi) Chemical & Food Engineering
- vii) Civil Engineering, Planning & Architecture

Trade and/or Skill Test (50 marks)

Skills pertaining to the subject would be assessed through a trade/skill test conducted by the concerned department. The trade test shall be conducted to elicit the candidate's ability to handle various laboratory/scientific experiments in a typical laboratory setup of the concerned



department (this may include a written explanation of experiments). This Trade/skill test is aimed to check communication skills on the subject along with the practical knowledge of the candidate in terms of various Do's and Don'ts in a laboratory related to procedures such as hazards, precautions etc.

The number of candidates qualifying in the written test for Trade and/or Skill Test will be in the ratio of 1:7 on merit, i.e., seven times of number of vacancies. That is, for every 1 post, 7 candidates will be called for Trade and/or Skill Test on merit, i.e., seven times the number of vacancies.

The candidates securing less than 30% in Written Test or Trade/Skill Test shall be disqualified.

Final Merit:

The final merit list will be prepared based on the Written Test (combined scores of both Sections), Trade/skill Test and Career. The weightage given to each is 60% (Written Test), 30% (Trade Test) and 10% (Career).

JUNIOR ENGINEER (PL – 06)

Mode of Selection:

Written Test, Trade and/or Skill Test & Career.

Written Test (200 marks)

The written Test will be 200 marks, and the duration of the test will be for Three Hours. This will comprise Section – I (Objective) of 100 marks and Section – II (Descriptive) of 100 marks. The medium of Language will be English only.

Section – I (OMR/Computer based)

There shall be 100 Objective Type Multiple Choice Questions (MCQs) of 01 mark each and consisting of:

- i) General Aptitude such as Science, Arithmetic, Reasoning, English, and General Awareness **(40 questions)**
- ii) General Engineering (Civil & Structural) **(60 questions)**

There shall be a 0.25 negative mark for each wrong answer. Each correct answer will carry a 01 mark. Un-attempted questions will be awarded Zero marks.

The Section – II answer sheet will be evaluated only if a candidate secures minimum qualifying marks in Section I.

Section – II (Descriptive Type)

Descriptive questions on General Engineering (Civil & Structural)

General Engineering (Civil & Structural) shall cover the subjects such as Building Materials, Estimating, Costing and Valuation, Surveying, Soil Mechanics, Hydraulics, Irrigation Engineering, Transportation Engineering, and Environmental Engineering. Structural Engineering: Theory of Structures, Concrete Technology, RCC Design, Steel Design

Trade and/or Skill Test (50 marks)

This Trade/skill test aims to check the practical knowledge of the candidate and assess a person's specific skills required for the job. It will also assess a candidate's suitability for the supervisory positions.



The number of candidates qualifying in the written test for Trade and/or Skill Test will be in the ratio of 1:7 on merit, i.e., seven times of number of vacancies. That is, for every 1 post, 7 candidates will be called for Trade and/or Skill Test on merit, i.e., seven times the number of vacancies.

The candidates securing less than 30% in Written Test or Trade/Skill Test shall be disqualified.

Final Merit:

The final merit list will be prepared based on the Written Test (combined scores of both Sections), Trade/skill Test and Career. The weightage given to each is 60% (Written Test), 30% (Trade/skill Test) and 10% (Career).

SAS ASSISTANT (PL – 06)

Mode of Selection:

Physical Fitness Test & Skill Test and Written Test.

Physical Fitness Test & Skill Test:

(All candidates shall be required to produce a medical certificate from a Registered Medical Practitioner certifying that they are medically fit for undertaking such tests, failing which they will not be allowed to participate in the selection process)

The candidate would be required to undertake the physical fitness test by the following norms, and the test will be qualifying in nature for shortlisting candidates for further selection process:

a) Running - 100 meter b) Jumping – Broad Jump c) Throwing – Putting the Shot.

Skill Test (50 marks)

The skill test shall be conducted to check the candidate's practical knowledge in handling various processes associated with Physical Education and Sports (major games).

Written Test (200 marks)

The written Test will be of 200 marks, and the duration of the test will be for Two and a half Hours. The medium of Language will be English only.

There shall be 200 Objective Type Multiple Choice Questions (MCQs) of 01 mark each and consisting of:

- i) General Aptitude such as Science, Arithmetic, Reasoning, English, and General Awareness (50 questions)
- ii) Basic Professional knowledge, i.e., History of Sports and sports personalities, Physical Education and Sports Coaching principles, including knowledge of Anatomy / Exercise Physiology etc. Athletic Injury & its prevention, Sports Management (150 questions).

There shall be a 0.25 negative mark for each wrong answer. Each correct answer will carry a 01 mark. Un-attempted questions will be awarded Zero marks.

The candidates securing less than 30% in Written Test or Trade/Skill Test shall be disqualified.

Final Merit:

The final merit list will be prepared based on the Written Test (combined scores of both Sections), Trade/skill Test and Career. The weightage given to each is 60% (Written Test), 30% (Trade/skill Test) and 10% (Career).



LIBRARY AND INFORMATION ASSISTANT (PL – 06)

Mode of Selection:

Written Test, Trade and/or Skill Test & Career.

Written Test (200 marks)

The written Test will be 200 marks, and the duration of the test will be for Three Hours. This will comprise Section – I (Objective) of 100 marks and Section – II (Descriptive) of 100 marks. The medium of Language will be English only.

Section – I (OMR/Computer based)

There shall be 100 Objective Type Multiple Choice Questions (MCQs) of 01 mark each and consisting of:

- i) General Aptitude such as Arithmetic, Reasoning, English, and General Awareness (50 questions)
- ii) Basic Professional knowledge, i.e., Library Aptitude. The knowledge and awareness of Library Information Science and recent development in the field of Library Science. The questions may be from all the spheres of library science (50 questions).

There shall be a 0.25 negative mark for each wrong answer. Each correct answer will carry a 01 mark. Un-attempted questions will be awarded Zero marks.

The Section – II answer sheet will be evaluated only if a candidate secures minimum qualifying marks in Section I.

Section – II (Descriptive Type)

Descriptive questions on i) Knowledge and application of Library and Information Science Procedures, Rules & Regulations ii) Knowledge of Computers with special reference to knowledge of Library Software Packages of Word Processing, Data Analysis Packages.

Trade and/or Skill Test (50 marks)

The skill test shall be conducted to check the candidate's practical knowledge in handling various processes associated with the Library's functioning. The candidates may be tested for their skills in:

- a) Search in electronic databases (online)
- b) Knowledge of specialized, open-source application software for libraries like Digital Library Software etc.

The number of candidates qualifying in the written test for Trade and/or Skill Test will be in the ratio of 1:7 on merit, i.e., seven times of number of vacancies. That is, for every 1 post, 7 candidates will be called for Trade and/or Skill Test on merit, i.e., seven times the number of vacancies.

The candidates securing less than 30% in Written Test or Trade/Skill Test shall be disqualified.

Final Merit:

The final merit list will be prepared based on the Written Test (combined scores of both Sections), Trade/skill Test and Career. The weightage given to each is 60% (Written Test), 30% (Trade/skill Test) and 10% (Career).



SENIOR ASSISTANT (PL – 04)

Mode of Selection:

Written Test, Typing Speed Test & Computer Proficiency Test.

Written Test (200 marks)

The written Test will be of 200 marks, and the duration of the test will be for Three Hours. This will comprise Section – I (Objective) of 100 marks and Section – II (Descriptive) of 100 marks. The medium of Language will be English only.

Section – I (OMR/Computer based)

There shall be 100 Objective Type Multiple Choice Questions (MCQs) of 01 mark each and consisting of:

- i) General Aptitude such as Arithmetic, Reasoning, English, and General Awareness (50 questions)
- ii) Basic knowledge consisting of the RTI Act, National Pension Scheme, Constitution of India and working of its political system, Computer (50 questions)

There shall be a 0.25 negative mark for each wrong answer. Each correct answer will carry a 01 mark. Un-attempted questions will be awarded Zero marks.

The Section – II answer sheet will be evaluated only if a candidate secures minimum qualifying marks in Section I.

Section – II (Descriptive Type)

Descriptive questions on RTI, Constitution of India and working of its political system, administration in Institutions of Higher Education, skill in noting/drafting, Essay and official letter writing.

Typing Speed Test

The minimum typing speed shall be at least 35 words per minute in English, which will be tested on a computer (PC). This typing test is qualifying in nature, and no additional marks for the same shall be allocated.

Computer Proficiency Test (50 marks)

The Computer Proficiency Test shall be conducted to check the practical knowledge of the candidate in handling Computers with special reference to knowledge of word processing, data analysis packages (Spreadsheet) and preparation of PPT.

The number of candidates qualifying in the written test for Typing Speed Test and Computer Proficiency Test will be in the ratio of 1:7 on merit, i.e., seven times of number of vacancies. That is, for every 1 post, 7 candidates will be called for Typing Speed Test and Computer Proficiency Test on merit, i.e., seven times the number of vacancies.

The candidates securing less than 30% in Written Test or Computer Proficiency Test shall be disqualified.

Final Merit:

The final merit list will be prepared based on the Written Test (combined scores of both Sections), Computer Proficiency Test and Career. The weightage given to each is 60% (Written Test), 30% (Computer Proficiency Test) and 10% (Career).



JUNIOR ASSISTANT (PL – 03)

Mode of Selection:

Written Test, Typing Speed Test & Computer Proficiency Test.

Written Test (200 marks)

The written Test will be of 200 marks, and the duration of the test will be for Three Hours. This will comprise Section –I (Objective) of 150 marks and Section – II (Descriptive) of 50 marks. The medium of Language will be English only.

Section – I (OMR/Computer based)

There shall be 150 Objective Type Multiple Choice Questions (MCQs) of 01 mark each and consisting of General Aptitude such as Arithmetic, Reasoning, English, and General Awareness.

There shall be a 0.25 negative mark for each wrong answer. Each correct answer will carry a 01 mark. Un-attempted questions will be awarded Zero marks.

The Section – II answer sheet will be evaluated only if a candidate secures minimum qualifying marks in Section I.

Section – II (Descriptive Type)

Essay, comprehension & letter writing: This test is meant to test the applicability and correct usage of the language, where the candidates would be assessed through essay writing, comprehension and letter writing, situation test analysis etc.

Typing Speed Test

The minimum typing speed shall be at least 35 words per minute in English, which will be tested on a computer (PC). This typing test is qualifying in nature, and no additional marks for the same shall be allocated.

Computer Proficiency Test (50 marks)

The Computer Proficiency Test shall be conducted to check the practical knowledge of the candidate in handling Computers with special reference to knowledge of word processing, data analysis packages (Spreadsheet) and preparation of PPT.

The number of candidates qualifying in the written test for Typing Speed Test and Computer Proficiency Test will be in the ratio of 1:7 on merit, i.e., seven times of number of vacancies. That is, for every 1 post, 7 candidates will be called for Typing Speed Test and Computer Proficiency Test on merit, i.e., seven times the number of vacancies.

The candidates securing less than 30% in Written Test or Computer Proficiency Test shall be disqualified.

Final Merit:

The final merit list will be prepared based on the Written Test (combined scores of both Sections), Computer Proficiency Test and Career. The weightage given to each is 60% (Written Test), 30% (Computer Proficiency Test) and 10% (Career).



SENIOR TECHNICIAN (PL – 04)

Mode of Selection:

Written Test, Trade and/or Skill Test & Career.

Written Test (200 marks)

The written Test will be of 200 marks, and the duration of the test will be for Three Hours. This will comprise Section – I (Objective) of 150 marks and Section – II (Descriptive) of 50 marks. The medium of Language will be English only.

Section – I (OMR/Computer based)

There shall be 150 Objective Type Multiple Choice Questions (MCQs) of 01 mark each and consisting of:

- a) General Aptitude such as Science, Arithmetic, Reasoning, English, and General Awareness (100 questions)
- b) 12th/Diploma level subject-specific laboratory-based practical questions (50 questions). There will be subject-wise subgroups, and a candidate, based on his educational background, shall choose only one group to answer the questions:
 - i) Physics, Chemistry, Mathematics
 - ii) Life Science (Botany, Zoology & Bio-medical)
 - iii) Electrical & Electronics Engineering
 - iv) Mechanical, Mining, Metallurgical & Material and Ceramic Engineering
 - v) Computer Science & Information Technology
 - vi) Chemical & Food Engineering
 - vii) Civil Engineering, Planning & Architecture

There shall be a 0.25 negative mark for each wrong answer. Each correct answer will carry a 01 mark. Un-attempted questions will be awarded Zero marks.

The Section – II answer sheet will be evaluated only if a candidate secures minimum qualifying marks in Section I.

Section – II (Descriptive Type)

12th/Diploma level descriptive subject-specific questions. There will be subject-wise subgroups, and a candidate, based on his educational background, shall choose only one group to answer the questions:

- i) Physics, Chemistry, Mathematics
- ii) Life Science (Botany, Zoology & Bio-medical)
- iii) Electrical & Electronics Engineering
- iv) Mechanical, Mining, Metallurgical & Material and Ceramic Engineering
- v) Computer Science & Information Technology
- vi) Chemical & Food Engineering
- vii) Civil Engineering, Planning & Architecture

Trade and/or Skill Test (50 marks)

Skills pertaining to the subject would be assessed through a trade/skill test conducted by the concerned department. The trade test shall be conducted to elicit the candidate's ability to handle various laboratory/scientific experiments in a typical laboratory setup of the concerned department (this may include a written explanation of experiments). This Trade/skill test is aimed to check communication skills on the subject along with the practical knowledge of the candidate in terms of various Do's and Don'ts in a laboratory related to procedures such as hazards,



precautions etc.

The number of candidates qualifying in the written test for Trade and/or Skill Test will be in the ratio of 1:7 on merit, i.e., seven times of number of vacancies. That is, for every 1 post, 7 candidates will be called for Trade and/or Skill Test on merit, i.e., seven times the number of vacancies.

The candidates securing less than 30% in Written Test or Trade/Skill Test shall be disqualified.

Final Merit:

The final merit list will be prepared based on the Written Test (combined scores of both Sections), Trade/skill Test and Career. The weightage given to each is 60% (Written Test), 30% (Trade/skill Test) and 10% (Career).

TECHNICIAN (PL – 03)

Mode of Selection:

Written Test, Trade and/or Skill Test & Career.

Written Test (200 marks)

The written Test will be of 200 marks, and the duration of the test will be for Two and a half Hours. The medium of Language will be English only.

There shall be 200 Objective Type Multiple Choice Questions (MCQs) of 01 mark each and consisting of:

- a) General Aptitude such as Science, Arithmetic, Reasoning, English, and General Awareness (100 questions)
- b) 12th/Diploma level subject-specific laboratory-based practical questions (100 questions). There will be subject-wise subgroups, and a candidate, based on his educational background, shall choose only one group to answer the questions:
 - i) Physics, Chemistry, Mathematics
 - ii) Life Science (Botany, Zoology & Bio-medical)
 - iii) Electrical & Electronics Engineering
 - iv) Mechanical, Mining, Metallurgical & Material and Ceramic Engineering
 - v) Computer Science & Information Technology
 - vi) Chemical & Food Engineering
 - vii) Civil Engineering, Planning & Architecture

There shall be a 0.25 negative mark for each wrong answer. Each correct answer will carry a 01 mark. Un-attempted questions will be awarded Zero marks.

Trade and/or Skill Test (50 marks)

Skills pertaining to the subject would be assessed through a trade/skill test conducted by the concerned department. The trade test shall be conducted to elicit the candidate's ability to handle various laboratory/scientific experiments in a typical laboratory setup of the concerned department (this may include a written explanation of experiments). This Trade/skill test is aimed to check communication skills on the subject along with the practical knowledge of the candidate in terms of various Do's and Don'ts in a laboratory related to procedures such as hazards, precautions etc.

The number of candidates qualifying in the written test for Trade and/or Skill Test will be in the ratio of 1:7 on merit, i.e., seven times of number of vacancies. That is, for every 1 post, 7 candidates will be called for Trade and/or Skill Test on merit, i.e., seven times the number of



vacancies.

The candidates securing less than 30% in Written Test or Trade/Skill Test shall be disqualified.

Final Merit:

The final merit list will be prepared based on the Written Test, Trade/skill Test and Career. The weightage given to each is 60% (Written Test), 30% (Trade/skill Test) and 10% (Career).

NOTE: For calculating total marks obtained by a candidate in the selection process, the marks obtained by the individual in a particular test (viz. written, trade/skill, computer proficiency test, career) shall be converted to percentile, and thereafter the prescribed weightage will be applied.

CAREER MARKING
(25 Marks)

The Career Marking for the selection process, wherever applicable, will be calculated in the manner given in the following table. The aggregate marks shall be considered for calculating the percentage. Conversion of CGPA into percentage shall be as per the formula prescribed by the degree awarding Institute. If no formula is prescribed by the degree-awarding Institute, the Institute policy of NIT Rourkela will be followed.

Post	Qualification	Marks to be Awarded				
		≥80%	≥75%	≥70%	≥65%	≥60%
Technician/Senior Technician	10 th /Matric	5	4	3	2	1
	Class XII	5	4	3	2	1
	ITI	5	4	3	2	1
	Diploma Engg.	5	4	3	2	1
	B.Sc./B.E./B. Tech.	5	4	3	2	1
Junior Assistant/ Senior Assistant	10 th /Matric	5	4	3	2	1
	Class XII	5	4	3	2	1
	Bachelor's Degree	5	4	3	2	1
	PG Degree	5	4	3	2	1
	Other Professional Degree of 01 year or more duration related to the job profile of the post	5	4	3	2	1

		≥85%	≥80%	≥75%	≥70%	≥65%
Technical Assistant/Junior Engineer/SAS Assistant/ Library And Information Assistant	10 th /Matric	5	4	3	2	1
	Class XII/Diploma	5	4	3	2	1
	B.Sc./B.E./B. Tech./B.C.A./ B.P.Ed./ B.Lib. etc.	5	4	3	2	1
	M.Sc./M.Tech./M.C.A./M.P.Ed./ M.Lib. etc.	5	4	3	2	1
	Other Professional Degree of 01	5	4	3	2	1



	year or more duration related to the job profile of the post					
Superintendent	10 th /Matric	5	4	3	2	1
	Class XII	5	4	3	2	1
	Bachelor's Degree	5	4	3	2	1
	PG Degree	5	4	3	2	1
	Other Professional Degree of 01 year or more duration related to the job profile of the post	5	4	3	2	1

PERSONAL INTERVIEW
(50 Marks)

The Personal Interview, wherever applicable, shall be conducted in such a manner that the candidate's suitability for the post is probed through academic qualifications, communication skills, leadership quality, temperament and attitude, professional knowledge etc.

CRITERIA FOR RELATIVE RANKING OF CANDIDATES WHO SCORE SAME TOTAL MARKS

Where two or more candidates score the same total marks in the merit list, the relative ranking of such candidates will be decided as follows:

- i) Candidates scoring higher marks in the written test will be ranked senior in relation to those scoring lower marks in the written test.
- ii) If the marks in the written test and the total marks are the same, the candidate with higher marks in work-related topics/Descriptive type will be ranked senior in relation to those scoring lower marks.
- iii) In case of a further tie, as stated above, the candidate with an earlier date of birth will be ranked senior to those with a later date of birth.

The above methodology will also be applied while shortlisting candidates for Trade/Skill Test or Interview.

Sd/-
REGISTRAR

