SAIL Durgapur Exam Pattern

Sl.No	Subject Name	Mark	Type of Exam
1.	Quantitative Aptitude	25	Objective type
2.	Logical Reasoning	25	
3.	English	25	
4.	General Knowledge	25	
5.	Engineering Stream	100	
Total		**200**	

SAIL Durgapur Syllabus 2020-Topics Wise

Quantitative Aptitude

1. Decimal Fraction
2. Time and Distance
3. Average
4. Chain Rule
5. Time and Work
6. Simplification
7. Logarithm
8. Height and Distance
9. Partnership
10. Ratio and Proportion
11. Banker's Discount
12. Problems on Ages
13. Allegation or Mixture
14. Numbers
15. Permutation and Combination
16. Area
17. Problems based on H.C.F & L.C.M
18. Stocks and Share
19. Pipes and Cistern
20. Compound Interest
21. Probability
22. Boats and Streams

23. Square Root and Cube Root
24. Volume and Surface Area
25. Surds and Indices
26. Races and Games
27. Simple Interest

Logical Reasoning

1. Blood Relations
2. Statements & Arguments
3. Number Ranking
4. Arithmetical Reasoning
5. Number Series
6. Non-Verbal Series
7. Alphabet Series
8. Statements & Conclusions
9. Data Interpretation
10. Analogy
11. Syllogism
12. Directions
13. Clocks & Calendars
14. Decision Making
15. Mirror Images
16. Cubes and Dice
17. Coding-Decoding

English

1. Fill in the blanks
2. Sentence Arrangement
3. Sentence Completion
4. Error Correction
5. Active Voice and Passive Voice
6. Spotting Errors
7. Para Completion
8. Joining Sentences
9. Antonyms
10. Idioms and Phrases
11. Passage Completion
12. Substitution

13. Synonyms
14. Error Correction
15. Prepositions
16. Sentence Improvement

General Knowledge

1. Indian National Movement
2. International & National Organizations
3. General Science
4. Countries & Capitals
5. Abbreviations
6. Science – Inventions & Discoveries
7. Awards and Honors
8. Indian History
9. Important Days
10. Indian Economy
11. Science & Technology
12. General Polity
13. Budget and Five Year Plans
14. Sports
15. Current Affairs, National & International
16. Books and Authors

Electronics and Communication Engineer

1. Electromagnetic Fields and antennas
2. VLSI and Embedded Systems
3. Computer Engineering
4. Analog electronic circuits
5. Communication Systems
6. Control Systems and instrumentation
7. Signals and Systems
8. Electronic Communication
9. Semiconductor Theory and Electronic Devices
10. Circuit Theory
11. Digital Signal and Image Processing

Mechanical Engineering

1. Probability & Statistics
2. Engineering Mechanics
3. Operations
4. Operations Research
5. Vector Calculus
6. Fluid Mechanics
7. Refrigeration and air-conditioning
8. Engineering Materials
9. Turbomachinery
10. Theory of Machines
11. Metal Casting
12. Calculus
13. Thermodynamics
14. Differential Equations
15. The design of Machine Elements
16. Tool Engineering
17. Joining Processes
18. Forming Processes
19. Numerical Methods
20. The Strength of Materials

Civil Engineering

1. Structural Engineering/Steel/ Reinforced Cement Concrete
2. Transportation Engineering
3. Fluid Mechanics
4. Engineering Mechanics
5. Civil Engineering Materials
6. Environmental Engineering
7. Concrete/ Construction Technology
8. The Strength of Materials
9. Survey estimating
10. Soil Mechanics
11. Structural Engineering/RCC design

Electrical Engineering

1. Electrical Engineering Materials
2. Machines
3. Instruments
4. Power Systems
5. Electrical Measurements & Measuring
6. Microprocessor
7. Power Electronics & Drives
8. Circuit Theory
9. Analog Circuits/ Electronics
10. Digital Electronics
11. Control System
12. Electrical Basics
13. Network theory
14. Power Systems

Chemical Engineer

1. Mass Transfer
2. Process Calculations and Thermodynamics
3. Chemical Technology
4. Heat Transfer
5. Chemical Reaction Engineering
6. Instrumentation and Process Control
7. Fluid Mechanics and Mechanical Operations
8. Plant Design and Economics