

Syllabus for All Exam Applicable Posts.

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1 Station Controller

Test Duration	1.30 Hrs of Single Paper	
Section name	Marks per item	No. of items
Technical/Domain	1 Marks	70
General Knowledge	1 Marks	10
Numerical Ability	1 Marks	10
Logic & Reasoning	1 Marks	10
General English	1 Marks	10
Marathi	1 Marks	10
Total		120

GENERAL SECTION

1. **General Knowledge** : Current affairs-India, Indian History, Indian Geography, Indian Economic, Indian Constitution, General Science, Current World events, sports, Indian Music, Dance & Culture.
2. **Logic & Reasoning** : Coding and decoding – Small & Capital letters/numbers, Coding, Decoding and classification, Analogies- Semantic Analogy, Symbolic/Number Analogy, Figural Analogy, Similarities and Differences, Word building, Arithmetic Number Series, Non-verbal Series, Visual memory, Observation, Relationship Concepts, Space Visualization.
3. **Numerical Ability** : Decimals and Fractions, Computation of Whole Numbers, Ratio and Time, Interest & Discounts, Time and Distance, Profit and Loss, Percentage, Ratio & Proportion, Number System, Fundamental Arithmetical Operations, Time and Work, Averages, The Relationship between Numbers.
4. **Technical** : Basic Electricity & Electronics, Laws of Electricity, Electrical Machines, Network Analysis, Electronic Devices, Electromagnetic Theory, Analog and Digital Electronics, Measurement & Instrumentation, Power System Analysis & Control, Utilization of Electrical Energy, Power System, Protection Control Systems, Electrical Machines including Pump Sets & DG Set, Switch Gear and Protection. Power Electronics & Drives, Analog Electronics, Microprocessors & Microcontrollers, Cost Estimation.

5. **General English** : Grammar, Articles, Phrase Replacement, Reading Comprehension, Para Jumbles, Sentence Rearrangement, Synonyms, Sentence Corrections, Adjectives, Fill in the blanks, Error spotting/Phrase replacement, Antonyms, Meanings, Word formation, Idioms & Phrases, Verb, Adverb, Missing Verbs, Unseen Passages.
6. **Marathi** : Basic Marathi Grammar of 10th Standard (Maharashtra State Board)

2 Jr. Engineer

Section name	Marks per item	No. of items
Technical/Domain	1 Marks	70
General Knowledge	1 Marks	10
Numerical Ability	1 Marks	10
Logic & Reasoning	1 Marks	10
General English	1 Marks	10
Marathi	1 Marks	10
Total		120

GENERAL SECTION

- 1. General Knowledge:** Current affairs-India, Indian History, Indian Geography, Indian Economic, Indian Constitution, General Science, Current World events, sports, Indian Music, Dance & Culture.
- 2. Logic & Reasoning :** Coding and decoding – Small & Capital letters/numbers, Coding, Decoding and classification, Analogies- Semantic Analogy, Symbolic/Number Analogy, Figural Analogy, Similarities and Differences, Word building, Arithmetic Number Series, Non-verbal Series, Visual memory, Observation, Relationship Concepts, Space Visualization.
- 3. Numerical Ability:** Decimals and Fractions, Computation of Whole Numbers, Ratio and Time, Interest & Discounts, Time and Distance, Profit and Loss, Percentage, Ratio & Proportion, Number System, Fundamental Arithmetical Operations, Time and Work, Averages, The Relationship between Numbers.
- 4. Technical:**Basic Electricity & Electronics, Laws of Electricity, Electrical Machines, Network Analysis, Electronic Devices, Electromagnetic Theory, Analog and Digital Electronics, Measurement & Instrumentation, Power System Analysis & Control, Utilization of Electrical Energy, Power System, Protection Control Systems, Electrical Machines including Pump Sets & DG Set, Switch Gear and Protection. Power

Electronics & Drives, Analog Electronics, Microprocessors & Microcontrollers, Cost Estimation.

5. **General English** : Grammar, Articles, Phrase Replacement, Reading Comprehension, Para Jumbles, Sentence Rearrangement, Synonyms, Sentence Corrections, Adjectives, Fill in the blanks, Error spotting/Phrase replacement, Antonyms, Meanings, Word formation, Idioms & Phrases, Verb, Adverb, Missing Verbs, Unseen Passages.
6. **Marathi** : Basic Marathi Grammar of 10th Standard (Maharashtra State Board)

3 Train Operator (Shunting)

Test Duration	1.30 Hrs of Single Paper	
Section name	Marks per item	No. of items
Technical/Domain	1 Marks	70
General Knowledge	1 Marks	10
Numerical Ability	1 Marks	10
Logic & Reasoning	1 Marks	10
General English	1 Marks	10
Marathi	1 Marks	10
Total		120

GENERAL SECTION

- 1. General Knowledge:** Current affairs-India, Indian History, Indian Geography, Indian Economic, Indian Constitution, General Science, Current World events, sports, Indian Music, Dance & Culture.
- 2. Logic & Reasoning :** Coding and decoding – Small & Capital letters/numbers, Coding, Decoding and classification, Analogies- Semantic Analogy, Symbolic/Number Analogy, Figural Analogy, Similarities and Differences, Word building, Arithmetic Number Series, Non-verbal Series, Visual memory, Observation, Relationship Concepts, Space Visualization.
- 3. Numerical Ability:** Decimals and Fractions, Computation of Whole Numbers, Ratio and Time, Interest & Discounts, Time and Distance, Profit and Loss, Percentage, Ratio & Proportion, Number System, Fundamental Arithmetical Operations, Time and Work, Averages, The Relationship between Numbers.
- 4. Technical:** Basic Electricity & Electronics, Laws of Electricity, Electrical Machines, Network Analysis, Electronic Devices, Electromagnetic Theory, Analog and Digital Electronics, Measurement & Instrumentation, Power System Analysis & Control, Utilization of Electrical Energy, Power System, Protection Control Systems, Electrical Machines including Pump Sets & DG Set, Switch Gear and Protection. Power Electronics & Drives, Analog Electronics, Microprocessors & Microcontrollers, Cost Estimation.

5. **General English** : Grammar, Articles, Phrase Replacement, Reading Comprehension, Para Jumbles, Sentence Rearrangement, Synonyms, Sentence Corrections, Adjectives, Fill in the blanks, Error spotting/Phrase replacement, Antonyms, Meanings, Word formation, Idioms & Phrases, Verb, Adverb, Missing Verbs, Unseen Passages.
6. **Marathi** : Basic Marathi Grammar of 10th Standard (Maharashtra State Board)

4 Traffic Controller

Section name	Marks per item	No. of items
Technical/Domain	1 Marks	70
General Knowledge	1 Marks	10
Numerical Ability	1 Marks	10
Logic & Reasoning	1 Marks	10
General English	1 Marks	10
Marathi	1 Marks	10
Total		120

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GENERAL SECTION

- 1. General Knowledge :** Current affairs-India, Indian History, Indian Geography, Indian Economic, Indian Constitution, General Science, Current World events, sports, Indian Music, Dance & Culture.
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- 3. Numerical Ability :** Decimals and Fractions, Computation of Whole Numbers, Ratio and Time, Interest & Discounts, Time and Distance, Profit and Loss, Percentage, Ratio & Proportion, Number System, Fundamental Arithmetical Operations, Time and Work, Averages, The Relationship between Numbers.
- 4. Technical :** Basic Electricity & Electronics, Laws of Electricity, Electrical Machines, Network Analysis, Electronic Devices, Electromagnetic Theory, Analog and Digital Electronics, Measurement & Instrumentation, Power System Analysis & Control, Utilization of Electrical Energy, Power System, Protection Control Systems, Electrical Machines including Pump Sets & DG Set, Switch Gear and Protection. Power

Electronics & Drives, Analog Electronics, Microprocessors & Microcontrollers, Cost Estimation.

5. **General English** : Grammar, Articles, Phrase Replacement, Reading Comprehension, Para Jumbles, Sentence Rearrangement, Synonyms, Sentence Corrections, Adjectives, Fill in the blanks, Error spotting/Phrase replacement, Antonyms, Meanings, Word formation, Idioms & Phrases, Verb, Adverb, Missing Verbs, Unseen Passages.
6. **Marathi** : Basic Marathi Grammar of 10th Standard (Maharashtra State Board)

5 Jr. Engineer (S&T)

Section name	Marks per item	No. of items
Technical/Domain	1 Marks	70
General Knowledge	1 Marks	10
Numerical Ability	1 Marks	10
Logic & Reasoning	1 Marks	10
General English	1 Marks	10
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- 3. Numerical Ability:** Decimals and Fractions, Computation of Whole Numbers, Ratio and Time, Interest & Discounts, Time and Distance, Profit and Loss, Percentage, Ratio & Proportion, Number System, Fundamental Arithmetical Operations, Time and Work, Averages, The Relationship between Numbers.
- 4. Technical:**Basic Electronics, Electronic Components & Materials, Measurement & Instrumentation, Electronic devices & Circuits, Analog &Digital Electronics, Power Electronics & Drives, Microprocessors & Microcontrollers, Network, Filters & Transmission Lines, Communication Systems, Consumer Electronics, Estimation & Costing.

5. **General English** : Grammar, Articles, Phrase Replacement, Reading Comprehension, Para Jumbles, Sentence Rearrangement, Synonyms, Sentence Corrections, Adjectives, Fill in the blanks, Error spotting/Phrase replacement, Antonyms, Meanings, Word formation, Idioms & Phrases, Verb, Adverb, Missing Verbs, Unseen Passages.
6. **Marathi** : Basic Marathi Grammar of 10th Standard (Maharashtra State Board)

6 Safety Supervisor-II

Test Duration	1.30 Hrs of Single Paper	
Section name	Marks per item	No. of items
Technical/Domain	1 Marks	70
General Knowledge	1 Marks	10
Numerical Ability	1 Marks	10
Logic & Reasoning	1 Marks	10
General English	1 Marks	10
Marathi	1 Marks	10
Total		120

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GENERAL SECTION

- 1. General Knowledge :** Current affairs-India, Indian History, Indian Geography, Indian Economic, Indian Constitution, General Science, Current World events, sports, Indian Music, Dance & Culture.
- 2. Logic & Reasoning :** Coding and decoding – Small & Capital letters/numbers, Coding, Decoding and classification, Analogies- Semantic Analogy, Symbolic/Number Analogy, Figural Analogy, Similarities and Differences, Word building, Arithmetic Number Series, Non-verbal Series, Visual memory, Observation, Relationship Concepts, Space Visualization.
- 3. Numerical Ability :** Decimals and Fractions, Computation of Whole Numbers, Ratio and Time, Interest & Discounts, Time and Distance, Profit and Loss, Percentage, Ratio & Proportion, Number System, Fundamental Arithmetical Operations, Time and Work, Averages, The Relationship between Numbers.
- 4. Technical :** Safety Management, Safety Performance and Monitoring, Safety Equipments, Statutory Obligations, Safety Appraisal & Control Techniques, Industrial safety, Fire Safety and its Consequences Analysis, Safety in Welding and Gas Cutting, Safety during Working at Height including use of Ladder, Safety in Material Handling and Storage of Materials, Electrical Safety, Emergency Preparedness & Response Plan, Occupation Health and Hygiene, Inquiry in unusual cases.

5. **General English** : Grammar, Articles, Phrase Replacement, Reading Comprehension, Para Jumbles, Sentence Rearrangement, Synonyms, Sentence Corrections, Adjectives, Fill in the blanks, Error spotting/Phrase replacement, Antonyms, Meanings, Word formation, Idioms & Phrases, Verb, Adverb, Missing Verbs, Unseen Passages.
6. **Marathi** : Basic Marathi Grammar of 10th Standard (Maharashtra State Board)

7 Technician-I

Test Duration	1.30 Hrs of Single Paper	
Section name	Marks per item	No. of items
Technical/Domain	1 Marks	70
General Knowledge	1 Marks	10
Numerical Ability	1 Marks	10
Logic & Reasoning	1 Marks	10
General English	1 Marks	10
Marathi	1 Marks	10
Total		120

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GENERAL SECTION

- 1. General Knowledge :** Current affairs-India, Indian History, Indian Geography, Indian Economic, Indian Constitution, General Science, Current World events, sports, Indian Music, Dance & Culture.
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- 3. Numerical Ability :** Decimals and Fractions, Computation of Whole Numbers, Ratio and Time, Interest & Discounts, Time and Distance, Profit and Loss, Percentage, Ratio & Proportion, Number System, Fundamental Arithmetical Operations, Time and Work, Averages, The Relationship between Numbers.
- 4. Technical :** Basic Electricity & Electronics, Laws of Electricity, Different types of Cells/Battery, Principle & Working of DC Motors , AC Motors, DG Set, Alternator & Transformer, Electrical Cable & Joints, Electrical/ Mechanical Measuring Instruments, Electrical Wiring and Distribution, Electronic Instruments & Measurement, Electronic Devices and Circuits, Maintenance of DG Set, Alternator, AC Motor & DC Motor, Converter/Inverter, Electrical Networks, Industrial Safety
- 5. General English :** Grammar, Articles, Phrase Replacement, Reading Comprehension, Para Jumbles, Sentence Rearrangement, Synonyms, Sentence Corrections, Adjectives, Fill in the blanks, Error spotting/Phrase replacement, Antonyms,

Meanings, Word formation, Idioms & Phrases, Verb, Adverb, Missing Verbs, Unseen Passages.

6. **Marathi** : Basic Marathi Grammer of 10th Standard (Maharashtra State Board)

8 Technician-II

Test Duration	1.30 Hrs of Single Paper	
Section name	Marks per item	No. of items
Technical/Domain	1 Marks	70
General Knowledge	1 Marks	10
Numerical Ability	1 Marks	10
Logic & Reasoning	1 Marks	10
General English	1 Marks	10
Marathi	1 Marks	10
Total		120

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GENERAL SECTION

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- 3. Numerical Ability :** Decimals and Fractions, Computation of Whole Numbers, Ratio and Time, Interest & Discounts, Time and Distance, Profit and Loss, Percentage, Ratio & Proportion, Number System, Fundamental Arithmetical Operations, Time and Work, Averages, The Relationship between Numbers.
- 4. Technical :** Basic Electricity, Laws of Electricity, Different types of Cells/ Battery & Charging, Principle & Working of DC Motors , AC Motors, DG Set, Alternator & Transformer, Electrical Cable & Joints, Electrical/ Mechanical and Pneumatic Measuring Instruments, Electrical Wiring and Distribution, Electronic Instruments & Measurement, Electronic Devices and Circuits, Industrial Safety.
- 5. General English :** Grammar, Articles, Phrase Replacement, Reading Comprehension, Para Jumbles, Sentence Rearrangement, Synonyms, Sentence Corrections, Adjectives, Fill in the blanks, Error spotting/Phrase replacement, Antonyms, Meanings, Word formation, Idioms & Phrases, Verb, Adverb, Missing Verbs, Unseen Passages.

6. **Marathi** : Basic Marathi Grammer of 10th Standard (Maharashtra State Board)

9 Technician (Civil)-I

Test Duration	1.30 Hrs of Single Paper	
Section name	Marks per item	No. of items
Technical/Domain	1 Marks	70
General Knowledge	1 Marks	10
Numerical Ability	1 Marks	10
Logic & Reasoning	1 Marks	10
General English	1 Marks	10
Marathi	1 Marks	10
Total		120

Please attach Syllabus for each of the sections defined above.

GENERAL SECTION

- 1. General Knowledge** : Current affairs-India, Indian History, Indian Geography, Indian Economic, Indian Constitution, General Science, Current World events, sports, Indian Music, Dance & Culture.
- 2. Logic & Reasoning** : Coding and decoding – Small & Capital letters/numbers, Coding, Decoding and classification, Analogies- Semantic Analogy, Symbolic/Number Analogy, Figural Analogy, Similarities and Differences, Word building, Arithmetic Number Series, Non-verbal Series, Visual memory, Observation, Relationship Concepts, Space Visualization.
- 3. Numerical Ability** : Decimals and Fractions, Computation of Whole Numbers, Ratio and Time, Interest & Discounts, Time and Distance, Profit and Loss, Percentage, Ratio & Proportion, Number System, Fundamental Arithmetical Operations, Time and Work, Averages, The Relationship between Numbers.
- 4. Technical** : Introduction & Safety, Measurement and Measuring Tools, Marking and Marking Tools, Hand Tools, Cutting Tools, Screw Thread and Fasteners, Precision Instruments, Gauge and Template, Limits and Fits, Surface Finish, Lubricant and Coolant, Jigs and Fixtures, Pipe and Pipe Fittings, Lifting Appliances, Welding- Types & Processes, Modern Precision Instruments (Micrometer, Dial Caliper, Universal

Bevel Protector), Types of Bridges, Maintenance of Bridges and Buildings, Properties of Concrete, Plastering and Painting Techniques.

5. **General English** : Grammar, Articles, Phrase Replacement, Reading Comprehension, Para Jumbles, Sentence Rearrangement, Synonyms, Sentence Corrections, Adjectives, Fill in the blanks, Error spotting/Phrase replacement, Antonyms, Meanings, Word formation, Idioms & Phrases, Verb, Adverb, Missing Verbs, Unseen Passages.
6. **Marathi** : Basic Marathi Grammar of 10th Standard (Maharashtra State Board)

10 Technician (Civil)-II

Test Duration	1.30 Hrs of Single Paper	
Section name	Marks per item	No. of items
Technical/Domain	1 Marks	70
General Knowledge	1 Marks	10
Numerical Ability	1 Marks	10
Logic & Reasoning	1 Marks	10
General English	1 Marks	10
Marathi	1 Marks	10
Total		120

Please attach Syllabus for each of the sections defined above.

GENERAL SECTION

- 1. General Knowledge :** Current affairs-India, Indian History, Indian Geography, Indian Economic, Indian Constitution, General Science, Current World events, sports, Indian Music, Dance & Culture.
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- 3. Numerical Ability :** Decimals and Fractions, Computation of Whole Numbers, Ratio and Time, Interest & Discounts, Time and Distance, Profit and Loss, Percentage, Ratio & Proportion, Number System, Fundamental Arithmetical Operations, Time and Work, Averages, The Relationship between Numbers.
- 4. Technical :** Introduction & Safety, Measurement and Measuring Tools, Marking & Marking Tools, Hand Tools, Cutting Tools, Screw Thread & Fasteners, Precision Instruments, Gauge and Template, Limits and Fits, Jigs and Fixtures, Pipe and Pipe Fittings, Lifting Appliances, Welding- Types & Processes, Types of Bridges, Maintenance of Bridges and Buildings, Properties of Concrete, Plastering and Painting Techniques.

5. **General English** : Grammar, Articles, Phrase Replacement, Reading Comprehension, Para Jumbles, Sentence Rearrangement, Synonyms, Sentence Corrections, Adjectives, Fill in the blanks, Error spotting/Phrase replacement, Antonyms, Meanings, Word formation, Idioms & Phrases, Verb, Adverb, Missing Verbs, Unseen Passages.
6. **Marathi** : Basic Marathi Grammar of 10th Standard (Maharashtra State Board)

11 Technician (E&M)-I

Test Duration	1.30 Hrs of Single Paper	
Section name	Marks per item	No. of items
Technical/Domain	1 Marks	70
General Knowledge	1 Marks	10
Numerical Ability	1 Marks	10
Logic & Reasoning	1 Marks	10
General English	1 Marks	10
Marathi	1 Marks	10
Total		120

Please attach Syllabus for each of the sections defined above.

GENERAL SECTION

- 1. General Knowledge :** Current affairs-India, Indian History, Indian Geography, Indian Economic, Indian Constitution, General Science, Current World events, sports, Indian Music, Dance & Culture.
- 2. Logic & Reasoning :** Coding and decoding – Small & Capital letters/numbers, Coding, Decoding and classification, Analogies- Semantic Analogy, Symbolic/Number Analogy, Figural Analogy, Similarities and Differences, Word building, Arithmetic Number Series, Non-verbal Series, Visual memory, Observation, Relationship Concepts, Space Visualization.
- 3. Numerical Ability :** Decimals and Fractions, Computation of Whole Numbers, Ratio and Time, Interest & Discounts, Time and Distance, Profit and Loss, Percentage, Ratio & Proportion, Number System, Fundamental Arithmetical Operations, Time and Work, Averages, The Relationship between Numbers.
- 4. Technical :** Basic Electricity, Laws of Electricity, Different types of Cells/Battery, Principle & Working of DC Motors, AC Motors, DG Set, Alternator & Transformer, Compressors and Pumps, Electrical Cable & Joints, Refrigeration & Air Conditioning , Electrical/ Mechanical Measuring Instruments, Machines Tools (Lathe , Drill, Cutting Machines), Electrical Wiring and Distribution, Different types of Welding, Instruments & Measurement, Electronic Devices, Maintenance of Centralized Air

Conditioners, Pump Set, DG Set, Alternator, AC Motor & DC Motor, Converter/ Invertors.

5. **General English** : Grammar, Articles, Phrase Replacement, Reading Comprehension, Para Jumbles, Sentence Rearrangement, Synonyms, Sentence Corrections, Adjectives, Fill in the blanks, Error spotting/Phrase replacement, Antonyms, Meanings, Word formation, Idioms & Phrases, Verb, Adverb, Missing Verbs, Unseen Passages.
6. **Marathi** : Basic Marathi Grammar of 10th Standard (Maharashtra State Board)

12 Technician (E&M)-II

Test Duration	1.30 Hrs of Single Paper	
Section name	Marks per item	No. of items
Technical/Domain	1 Marks	70
General Knowledge	1 Marks	10
Numerical Ability	1 Marks	10
Logic & Reasoning	1 Marks	10
General English	1 Marks	10
Marathi	1 Marks	10
Total		120

Please attach Syllabus for each of the sections defined above.

GENERAL SECTION

- 1. General Knowledge :** Current affairs-India, Indian History, Indian Geography, Indian Economic, Indian Constitution, General Science, Current World events, sports, Indian Music, Dance & Culture.
- 2. Logic & Reasoning :** Coding and decoding – Small & Capital letters/numbers, Coding, Decoding and classification, Analogies- Semantic Analogy, Symbolic/Number Analogy, Figural Analogy, Similarities and Differences, Word building, Arithmetic Number Series, Non-verbal Series, Visual memory, Observation, Relationship Concepts, Space Visualization.
- 3. Numerical Ability :** Decimals and Fractions, Computation of Whole Numbers, Ratio and Time, Interest & Discounts, Time and Distance, Profit and Loss, Percentage, Ratio & Proportion, Number System, Fundamental Arithmetical Operations, Time and Work, Averages, The Relationship between Numbers.
- 4. Technical :** Basic Electricity, Laws of Electricity, Different types of Cells/Battery, Principle & Working of DC Motors , AC Motors, DG Set, Alternator & Transformer, Compressors and Pumps, Electrical Cable & Joints, Air Conditioning , Electrical/Mechanical Measuring Instruments, Machines Tools (Lathe, Drill, Cutting Machines), Electrical Wiring and Distribution, Different types of Welding, Instruments & Measurement, Electronic Devices, Safety in Working.

5. **General English** : Grammar, Articles, Phrase Replacement, Reading Comprehension, Para Jumbles, Sentence Rearrangement, Synonyms, Sentence Corrections, Adjectives, Fill in the blanks, Error spotting/Phrase replacement, Antonyms, Meanings, Word formation, Idioms & Phrases, Verb, Adverb, Missing Verbs, Unseen Passages.
6. **Marathi** : Basic Marathi Grammar of 10th Standard (Maharashtra State Board)

13 Helper

Test Duration	1.30 Hrs of Single Paper	
Section name	Marks per item	No. of items
Technical/Domain	1 Marks	00
General Knowledge & C.A.	1 Marks	20
Numerical Ability	1 Marks	20
Logic & Reasoning	1 Marks	20
General English	1 Marks	10
Marathi	1 Marks	10
General Science	1 Marks	20
Total		100

Please attach Syllabus for each of the sections defined above.

1. General Intelligence & Reasoning :

Non-Verbal series, Coding & Decoding, Alphabetical & Number Series, Mathematical Operations, Relationships, Similarities & Differences, Analytical Reasoning, Decision Making, Analogies, Statement- Arguments and Assumptions.

2. Numerical Ability :

Number System, Decimals and Fractions, LCM, HCF, Ratio and Proportion, Time and Work, Time & Distance, Profit and Loss, Percentages, Averages, Simple & Compound Interest, Algebra, Square Root, Age Calculations, Calendar & Clock,

3. General Knowledge & Current Affairs :

Current Events, Sports, Personalities, Economics, Politics, Indian History , Indian Geography, Indian Music, Dance & Culture.

4. General Science :

The syllabus under this shall cover Physics, Chemistry and Life Sciences of 8th Standard and ITI Standard. (Maharashtra State Board). Physics-7, Chemistry-7 and Life Science-6 questions.

5. **General English** : Grammar, Articles, Phrase Replacement, Reading Comprehension, Para Jumbles, Sentence Rearrangement, Synonyms, Sentence Corrections, Adjectives, Fill in the blanks, Error spotting/Phrase replacement, Antonyms, Meanings, Word formation, Idioms & Phrases, Verb, Adverb, Missing Verbs, Unseen Passages.

6. **Marathi** : Basic Marathi Grammar of 10th Standard (Maharashtra State Board)

14 Technician (S&T)-I

Test Duration	1.30 Hrs of Single Paper	
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Technical/Domain	1 Marks	70
General Knowledge	1 Marks	10
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- 4. Technical :** Basic Gates – Introduction to Digital Electronics, SMPS – Concept and Block Diagrams of Manual Automatic and Servo Voltage Stabilizer, UPS – Concept of UPS , Difference between UPS and Inverter, Cells and Batteries – Types and application, Basic Components – Ohm’s Law and its applications, Transformer & Rectifier – Working Principle and Types, Measuring Instruments AC and DC measurements, LCR Meter, CRO, Frequency Meter, etc. Transistor– Working

Principle and application, Opto Electronics – Working and application of LED, Photo Diode, Photo Transistor & LASER Diodes, Protection Devices – Fuse, MCB's, SPDS.

Communication Electronics – Radio Wave Propagation – Principle, Fading, Need for Modulation, Types of Modulation, Demodulation Techniques. Fundamentals of Antenna, Various Parameters, Types of Antennas & Application, GPS Clocks – Principle and working, Public Address System and working, Type of Telecom Cables and Testing of Cables.

5. **General English** : Grammar, Articles, Phrase Replacement, Reading Comprehension, Para Jumbles, Sentence Rearrangement, Synonyms, Sentence Corrections, Adjectives, Fill in the blanks, Error spotting/Phrase replacement, Antonyms, Meanings, Word formation, Idioms & Phrases, Verb, Adverb, Missing Verbs, Unseen Passages.

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15 Technician (S&T)-II

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- 3. Numerical Ability :** Decimals and Fractions, Computation of Whole Numbers, Ratio and Time, Interest & Discounts, Time and Distance, Profit and Loss, Percentage, Ratio & Proportion, Number System, Fundamental Arithmetical Operations, Time and Work, Averages, The Relationship between Numbers.
- 4. Technical :** Basic Gates – Introduction to Digital Electronics, Cells and Batteries – Types and Application, Basic Components – Ohm’s Law and its Applications, Transformer & Rectifier– Working Principle and Types, Measuring Instruments AC and DC measurements, LCR Meter , CRO, Frequency Meter, etc, Transistor– Working Principle and Application, Opto Electronics – Working and Application of LED, Photo Diode, Photo Transistor & LASER Diodes, Protection Devices – Fuse, MCB’s, SPDS, Communication Electronics – Radio Wave Propagation – Principle, Fading, Need

for Modulation, Types of Modulation, Demodulation Techniques, Fundamentals of Antenna, Various Parameters, Types of Antennas & Application.

5. **General English** : Grammar, Articles, Phrase Replacement, Reading Comprehension, Para Jumbles, Sentence Rearrangement, Synonyms, Sentence Corrections, Adjectives, Fill in the blanks, Error spotting/Phrase replacement, Antonyms, Meanings, Word formation, Idioms & Phrases, Verb, Adverb, Missing Verbs, Unseen Passages.

6. **Marathi** : Basic Marathi Grammar of 10th Standard (Maharashtra State Board)

16 Finance Assistant

Section name	Marks per item	No. of items
Technical/Domain	1 Marks	70
General Knowledge	1 Marks	10
Numerical Ability	1 Marks	10
Logic & Reasoning	1 Marks	10
General English	1 Marks	10
Marathi	1 Marks	10
Total		120

Please attach Syllabus for each of the sections defined above.

GENERAL SECTION

- 1. General Knowledge :** Current affairs-India, Indian History, Indian Geography, Indian Economic, Indian Constitution, General Science, Current World events, sports, Indian Music, Dance & Culture.
- 2. Logic & Reasoning :** Coding and decoding – Small & Capital letters/numbers, Coding, Decoding and classification, Analogies- Semantic Analogy, Symbolic/Number Analogy, Figural Analogy, Similarities and Differences, Word building, Arithmetic Number Series, Non-verbal Series, Visual memory, Observation, Relationship Concepts, Space Visualization.
- 3. Numerical Ability :** Decimals and Fractions, Computation of Whole Numbers, Ratio and Time, Interest & Discounts, Time and Distance, Profit and Loss, Percentage, Ratio & Proportion, Number System, Fundamental Arithmetical Operations, Time and Work, Averages, The Relationship between Numbers.
- 4. Technical :** Double Entry Accounting System, Cash Flow & Fund Flow Analysis, Costing Concepts such as Material cost, Labour Cost and Overheads, Fixed Cost, Variable Costs, Standard Costing, Marginal Costing; Break Even Analysis; Price Volume Relationship and Contribution Margin; Budget and Budgetary Control, Income from Salary, Income from Business & Profession, Payment of Advance Tax, Minimum Alternate Tax (MAT) under Income Tax Act, 1961, Goods & Services Tax;

Utility of preparation of Trial Balance and creation of Depreciation Reserve Fund; Preparation of Balance sheet and Income & Expenditure Account as per Companies Act, 2013; Accounting Concepts and Conventions; Utility for preparation of Bank Reconciliation Statement; Internal Audit, Internal Contrail and Investigation; Utility of physical verification of fixed assets; Methods of charging description on assets; Methods of Inventory Valuation; Rectification of Errors; Fundamental of Billing Passing and Payment; Labour Laws, Payments of Wages Act, Payments of Bonus Act, Payments of Gravity Act.

5. **General English** : Grammar, Articles, Phrase Replacement, Reading Comprehension, Para Jumbles, Sentence Rearrangement, Synonyms, Sentence Corrections, Adjectives, Fill in the blanks, Error spotting/Phrase replacement, Antonyms, Meanings, Word formation, Idioms & Phrases, Verb, Adverb, Missing Verbs, Unseen Passages.
6. **Marathi** : Basic Marathi Grammer of 10th Standard (Maharashtra State Board)

17 Commercial Assistant

Test Duration	1.30 Hrs of Single Paper	
Section name	Marks per item	No. of items
Technical/Domain	1 Marks	00
General Awareness	1 Marks	30
Numerical Ability	1 Marks	30
Logic & Reasoning	1 Marks	30
General English	1 Marks	15
Marathi	1 Marks	15
Total		120

Please attach Syllabus for each of the sections defined above.

Following Sections will be of 30 marks each with negative marking.

Total Marks : 120

1. General Awareness :

Daily News, Current Affairs, Indian Constitution, National & International Affairs, Current events, Sports & Games, Latest Science, Political, Important events, Economy, Laws, Geography, Countries & Currencies, Economic Scene, Scientific Research.

Famous Personalities, Countries and Capitals, States and Capitals, Sports, Art & Culture, History, Government Schemes, Inventions and Discoveries, Financials, Legal.

2. Logical Ability & Reasoning :

Coded Inequalities, Puzzles, Blood Relations, Decision making, Seating arrangement, Problems on age calculations.

Non-Verbal Series, Blood Relation, Statement Conclusion, Directions, Coding-Decoding, Alphabet Series, Clocks & Calendars, Mirror Images, Number Series, Embedded Figures, Decision Making, Analogy, Arithmetical Reasoning, Cubes and dice, Number Ranking.

3. Numerical Ability :

Decimals and fractions, Computation of whole numbers, Ratio and time, Interest & Discounts, Time and distance, Profit and loss, Percentage, Ratio & Proportion, Number System, Fundamental Arithmetical Operations, Time and Work, Averages, Use of table and graphs, Relationship between numbers.

4. General English :

Grammar, Articles, Phrase Replacement, Reading Comprehension, Para Jumbles, Sentence Rearrangement, Synonyms, Sentence Corrections, Adjectives, Fill in the blanks, Error spotting/Phrase replacement, Antonyms, Meanings, Word formation, Idioms & Phrases, Verb, Adverb, Missing Verbs, Unseen Passages.

5. **Marathi** : Basic Marathi Grammar of 10th Standard (Maharashtra State Board)

18 Jr. Engineer (Stores)

Test Duration	1.30 Hrs of Single Paper	
Section name	Marks per item	No. of items
Technical/Domain	1 Marks	70
General Knowledge	1 Marks	10
Numerical Ability	1 Marks	10
Logic & Reasoning	1 Marks	10
General English	1 Marks	10
Marathi	1 Marks	10
Total		120

Please attach Syllabus for each of the sections defined above.

GENERAL SECTION

- 1. General Knowledge** : Current affairs-India, Indian History, Indian Geography, Indian Economic, Indian Constitution, General Science, Current World events, sports, Indian Music, Dance & Culture.
- 2. Logic & Reasoning** : Coding and decoding – Small & Capital letters/numbers, Coding, Decoding and classification, Analogies- Semantic Analogy, Symbolic/Number Analogy, Figural Analogy, Similarities and Differences, Word building, Arithmetic Number Series, Non-verbal Series, Visual memory, Observation, Relationship Concepts, Space Visualization.

3. **Numerical Ability** : Decimals and Fractions, Computation of Whole Numbers, Ratio and Time, Interest & Discounts, Time and Distance, Profit and Loss, Percentage, Ratio & Proportion, Number System, Fundamental Arithmetical Operations, Time and Work, Averages, The Relationship between Numbers.
4. **Technical** : Strength of Materials, Engineering Mechanics, Engineering Materials, Measurement and Instrumentation, Control Systems, Electrical Machines, Power Electronics, Construction Materials, Fluid Mechanics, Inventory Control, Communication Equipments, Transportation, Material Handling, Materials' Management in Industries.
5. **General English** : Grammar, Articles, Phrase Replacement, Reading Comprehension, Para Jumbles, Sentence Rearrangement, Synonyms, Sentence Corrections, Adjectives, Fill in the blanks, Error spotting/Phrase replacement, Antonyms, Meanings, Word formation, Idioms & Phrases, Verb, Adverb, Missing Verbs, Unseen Passages.
6. **Marathi** : Basic Marathi Grammar of 10th Standard (Maharashtra State Board)

19 HR Assistant-II

Test Duration	1.30 Hrs of Single Paper	
Section name	Marks per item	No. of items
Technical/Domain	1 Marks	70
General Knowledge	1 Marks	10
Numerical Ability	1 Marks	10
Logic & Reasoning	1 Marks	10
General English	1 Marks	10
Marathi	1 Marks	10
Total		120

Please attach Syllabus for each of the sections defined above.

GENERAL SECTION

- 1. General Knowledge :** Current affairs-India, Indian History, Indian Geography, Indian Economic, Indian Constitution, General Science, Current World events, sports, Indian Music, Dance & Culture.
- 2. Logic & Reasoning :** Coding and decoding – Small & Capital letters/numbers, Coding, Decoding and classification, Analogies- Semantic Analogy, Symbolic/Number Analogy, Figural Analogy, Similarities and Differences, Word building, Arithmetic Number Series, Non-verbal Series, Visual memory, Observation, Relationship Concepts, Space Visualization.
- 3. Numerical Ability :** Decimals and Fractions, Computation of Whole Numbers, Ratio and Time, Interest & Discounts, Time and Distance, Profit and Loss, Percentage, Ratio & Proportion, Number System, Fundamental Arithmetical Operations, Time and Work, Averages, The Relationship between Numbers.
- 4. Technical :** Function of Management, Job Analysis, Manpower Planning, Recruitment and Selection, Performance Management System, Training and Development, Organizational Behaviour, Motivation and Job Satisfaction, Leadership, Business Communication, Employee Engagement, Organizational Change and Development, Industrial Relations, Industrial Dispute, Workers Participation in Management, Trade union and its evolution in India, Labour Laws:

Minimum wages Act, Payment of Bonus Act, Payment of Wages Act, Employee Compensation Act, Industrial Employment, Provident Fund and MP Act, Payment of Gratuity Act, Contract Labour Regulation and Abolition Act, Employee State Insurance Act, Factories Act, Industrial Disputes Act, Child Labour (P&A) Act, Apprenticeship Act.

5. **General English** : Grammar, Articles, Phrase Replacement, Reading Comprehension, Para Jumbles, Sentence Rearrangement, Synonyms, Sentence Corrections, Adjectives, Fill in the blanks, Error spotting/Phrase replacement, Antonyms, Meanings, Word formation, Idioms & Phrases, Verb, Adverb, Missing Verbs, Unseen Passages.

6. **Marathi** : Basic Marathi Grammar of 10th Standard (Maharashtra State Board)

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