# Syllabus for the post of Junior Engineer (Civil)

#### Test Type: Written Exam (Multiple Choice Question) Test Period: 90 Minutes Total Marks: 100

Subject	Торіс	Weightage
General English	<ul> <li>Comprehension, One word substitution, Synonyms and Antonyms,</li> <li>Spelling error, Spotting error in sentences,</li> <li>Grammar Noun, Pronoun, Adjective, Verb, Preposition, Conjunction,</li> <li>Use of 'A', 'AN' and 'THE',</li> <li>Idioms and Phrases</li> </ul>	5 Questions each 1 mark [5]
General Knowledge	<ul> <li>Indian History, Indian Geography, Indian Economy, Indian Polity &amp; Constitution,</li> <li>Scientific Research, awards,</li> <li>Sports,</li> <li>Current Affairs-India &amp; World</li> </ul>	8 Questions each 1 mark [8]
Logical Reasoning	<ul> <li>Analogies – Semantic Analogy, Symbolic / Number Analogy, Figural Analogy,</li> <li>Similarities and differences, word building, relation concepts,</li> <li>Arithmetic number series, Semantic Series, Number Series,</li> <li>Coding and Decoding – small &amp; Capital Letters / numbers coding, decoding and classification</li> </ul>	7 Questions each 1 mark [7]
Quantitative Aptitude	<ul> <li>Number System,</li> <li>Time and Work,</li> <li>Averages, Percentages,</li> <li>Profit and loss,</li> <li>Ratio and Proportions,</li> <li>Simple and Compound Interest, Time and Distance</li> </ul>	10 Questions each 1 mark [10]
Computer Literacy	<ul> <li>Characteristics of Computer, Computer Organisation including RAM, ROM, File System, Input Devices,</li> <li>Computer Software – Relationship between Hardware and Software,</li> <li>Operating System, MS-Office (exposure of Word, Excel/spread sheet, Power point),</li> <li>Digital Signatures, Application of information technology in Government for E- Governance</li> </ul>	5 Questions each 1 mark [5]

Subject	Торіс	Weightage
Estimating, Costing and Valuation	<ul> <li>Estimate, glossary of technical terms, analysis of rates, methods and unit of measurement,</li> <li>Items of work - Earthwork, RCC work, Shuttering,</li> <li>Centre line method, Mid-section formula, Trapezoidal formula,</li> <li>Simpson's rule.</li> <li>Valuation - Value and cost, scrap value, salvage value, assessed value, sinking fund, depreciation and obsolescence, methods of valuation.</li> </ul>	5 Questions each 1 mark [5]
Surveying	<ul> <li>Principles of surveying, measurement of distance, chain surveying, working of prismatic compass,</li> <li>compass traversing, bearings, local attraction,</li> <li>plane table surveying, theodolite traversing, adjustment of theodolite, Levelling,</li> <li>Definition of terms used in levelling, contouring, curvature and refraction corrections,</li> <li>temporary and permanent adjustments of survey instruments,</li> <li>methods of contouring, uses of contour map,</li> <li>tachometric survey, curve setting, earth work calculation, advanced surveying equipment e.g. Total Station, DGPS, GPS etc.</li> <li>Use of Remote Sensing Techniques in planning of WR projects</li> </ul>	20 Questions each 1 mark [20]
Geotechnical Engineering	<ul> <li>Soil Type and structure – gradation and particle size distribution – consistency limits.</li> <li>Properties of soils, classification and interrelationship;</li> <li>Compaction behaviour, methods of compaction and their choice,</li> <li>Laboratory and field tests, Earth pressure theory and analysis for retaining walls,</li> <li>Bearing capacity of soil - stability of slope of earth walk.</li> <li>Type and properties of Rocks including laboratory and field testing.</li> </ul>	4 Questions each 1 mark [4]
Foundation Engineering	<ul> <li>Types of foundations,</li> <li>Selection criteria for foundation of structures, bearing capacity, settlement,</li> <li>Types of piles and their layout.</li> <li>Foundations on expansive soils, foundation on swelling soils.</li> </ul>	4 Questions each 1 mark [4]

Subject	Торіс	Weightage
Hydraulics	<ul> <li>Fluid properties,</li> <li>hydrostatics,</li> <li>measurements of flow,</li> <li>Bernoulli's theorem and its application, flow through pipes,</li> <li>flow in open channels,</li> <li>weirs, flumes, spillways, pumps and turbines</li> </ul>	4 Questions each 1 mark [4]
Irrigation Engineering	<ul> <li>Definition, necessity, benefits, effects of irrigation, types and methods of irrigation,</li> <li>Water requirement of crops, duty, delta and base period, Kharif and Rabi Crops, Command area, Time factor, Crop ratio, Overlap allowance, Irrigation efficiencies.</li> <li>Different type of canals, types of canal irrigation, canal capacity, canal losses, alignment of main and distributory canals,</li> <li>Canal lining – types and advantages.</li> <li>Canal structures: Description of head regulators, canal falls, aqueducts, metering flumes and canal outlets.</li> <li>Diversion headwork: Description of weirs of permeable and impermeable foundation, Silt and Scour, Kennedy's theory of critical velocity, Lacey's theory of uniform flow.</li> <li>Storage works: Types of dams.</li> <li>Spillways: Spillway types, energy dissipation.</li> </ul>	15 Questions each 1 mark [15]
Concrete Technology	<ul> <li>Properties, Advantages and uses of concrete,</li> <li>Cement aggregates, importance of water quality, water cement ratio, workability, mix design, storage, batching, mixing, placement, compaction, finishing and curing of concrete,</li> <li>Quality control of concrete, hot weather and cold weather concreting,</li> </ul>	3 Questions each 1 mark [3]
Hydrology	<ul> <li>Measurement of rainfall, rain gauge and related data analysis e. g. Rainfall – Runoff analysis, Thiessen polygon,</li> <li>PMP, precipitation, Evaporation and transpiration,</li> <li>Overland flow, unit and synthetic hydrograph,</li> <li>Floods and their management, flood frequency analysis etc.</li> </ul>	10 Questions each 1 mark [10]

Weightage

#### **Syllabus for the post of Junior Accounts Officer**

#### **Test Type: Written Exam (Multiple Choice Question) Test Period: 90 Minutes** Total Marks: 100

Subject Topic Weightage General English Vocabulary, Shuffling of sentence elements, 10 Questions each 01 Mark Sentence Rearrangement, One phrase substitutions. Sentence construction, [10] Comprehension, Error Correction, Fill within the Blanks, Synonyms, Antonyms, Grammar, Unseen Passages Idioms & Phrases, Topic-Verb Settlement. And so forth. Arithmetic Number system, HCF, LCM, Simplification, 20 Ouestions Decimal Fractions, Ratio and Proportions, each 01 Mark Unitary Method, Percentage, Time and [20] Distance, Time and Work, Profit and Loss, Average, Simple and Compound Interest, Menstruation (2 D and 3 D), Algebra, Data Interpretation. Advance Relationship of Finance to Accounting and 30 Ouestions each 01 Mark Accounting Audit, The organization of Finance Function, Goals of Financial Management, [30] Kev of Financial Management, activities Analyzing financial performance, Financial ratios, Applications of financial analysis, Problems in financial statements and analysis, Trading and Profit & Loss account and Balance sheets, Bills of Exchange, Self Balancing Ledger and Sectional Balancing, Capital & Revenue. Receipts and Payment. Income and Expenditure, Branch and Departmental Accounts, Double Entry System, Rectification of Errors, Balance Sheets format and Classification. Trial Balance, Depreciation on Fixed Assets, Internal Audit of Accounts. Auditing Verification 20 Ouestions The object of Audit, and and Income Tax each 01 Mark vouching, Rights, Duties and Liabilities of Auditors, Income Tax, Provisions about [20] income from salary and Provisions related to

Chapter – IV of Income Tax Act 1961.

Topic

Subject

General Studies	General Science, India's history, Indian	10 Question
	National Movement, Indian Politics, Economy	each 01 Mark
	& Culture, Indian agriculture, Commerce and	[10]
	Trade & Population, Ecology and	
	urbanization, World Geography, India's	
	Geological & Natural Resources, The current	
	national, main international events.	
Computer	Characteristics of Computer, computer	10 Questions
Literacy	Organization including RAM, ROM, File	each 01 Mark
	System, Input Devices, Computer Software.	[10]
	Relationship between Hardware and Software	
	Operating System, MS- Office (exposure of	
	Work, Excel / spread sheet, Power point),	
	Tally Package and M.S. Excel Computer	
	Application in Accounting, Digital Signatures,	
	Application of information technology in	
	government for E-governance.	

# Syllabus for the post of Draftsman Grade III (Civil)

### Test Type: Written Exam (Multiple Choice Question) Test Period: 90 Minutes Total Marks: 100

Subject	Торіс	Weightage
General English General Hindi	Vocabulary, Shuffling of sentence elements, Sentence Rearrangement, One phrase substitutions, Sentence construction, Comprehension, Error Correction, Fill within the 	20 Questions each 01 mark[20]
	वलोम, मुहावरे और लोकोक्तियाँ, शुद्ध- अशुद्धवाक्य, संध-वच्छेद, अंलकार और समास, वचन, लंग, अनेकार्थी और वाक्य के लए एक शब्द	
Draftsman (Civil) <b>Subject Specific</b>	Question on ITI Draughtsman (Civil) Trade syllabus and practical application of the Subject, CAD designing, CAD Designing Software, Features of CAD software, 2D and 3D sketching, and other designing software.	30 Questions each 01 mark[30]
Arithmetic	Number system, HCF, LCM, Simplification, Decimal Fractions, Ratio and Proportions, Unitary Method, Percentage, Time and Distance, Time and Work, Profit and Loss, Average, Simple and Compound Interest, Menstruation (2 D and 3 D), Algebra, Data Interpretation.	20 Questions each 01 mark[20]
General Studies	General Science, India's history, Indian National Movement, Indian Politics, Economy & Culture, Indian agriculture, Commerce and Trade & Population, Ecology and urbanization, World Geography, India's Geological & Natural Resources, The current national, main international events.	10 Questions each 01 mark[10]

Reasoning		10 Questions each 01 mark[10]
Computer Literacy	Organization including RAM, ROM, File each 01 Mark System, Input Devices, Computer Software. [20] Relationship between Hardware and Software Operating System, MS- Office (exposure of Work, Excel / spread sheet, Power point), Tally Package and M.S. Excel Computer Application in Accounting, Digital Signatures, Application of	10 Questions each 01 ma
	information technology in government for E- governance.	

# Syllabus for the post of Upper Division Clerk (UDC)

### Test Type: Written Exam (Multiple Choice Question) Test Period: 90 Minutes Total Marks: 100

Subject	Торіс	Weightage
General English	Comprehension, One word substitution, Synonyms and Antonyms, Spelling error, Spotting error in sentences, Grammar Noun, Pronoun, Adjective, Verb, Preposition, Conjunction, Use of 'A', 'AN' and 'THE', Idioms and Phrases	20 Questions each 01 mark [20]
	OR	
General Hindi	गद्यांश आधरित प्रश्न तत्सम, तद्वव, पर्यायवाची, विलोम, मुहावरे और लोकोतियाॅ, शुद्व – अशुद्ववाक्य, संधि– विच्छेद, अलंकार और समास, वचन, लिंग, अनेकार्थी और वाक्य के लिए एक शब्द	
General Knowledge	India History, Indian Geography, Indian Economy, Indian Polity & Constitution, Scientific Research, awards, Sports, Current Affairs-India & World	20 Questions each 01 mark [20]
Logical Reasoning	Analogies – Semantic Analogy, Symbolic/ Number Analogy, Figural Analogy, Symbolic/ Number Analogy, Figural Analogy, Similarities and differences, word building, relation concepts, Arithmetic number series, Semantic Series, Number Series, Coding and Decoding- small & Capital Letters/numbers coding, decoding and classification	<ul><li>15 Questions</li><li>each 01 mark</li><li>[15]</li></ul>
Computer Literacy	Characteristics of Computer, Computer Organisation including RAM, ROM, File System, Input Devices, Computer Software-Relationship between Hardware and Software, Operating System, MS-Office (exposure of Word, Excel/spread sheet, Power point), Information Technology and Society- Indian IT Act, Digital Signatures, Application of information technology in Government for E- Governance mobile/Smartphone's Information Kiosks	20 Questions each 01 mark [20]

Subject	Торіс	Weightage
Quantitative Aptitude	Number system, HCF, LCM, Simplification, Decimal Fractions, Ratio and Proportions, Unitary Method, Percentage, Time and Distance, Time and Work, Profit and Loss, Average, Simple and Compound Interest, Menstruation (2 D and 3 D), Algebra, Data Interpretation.	each 01 mark [25]

# Syllabus for the post of Stenographer Grade-II

### Test Type: Written Exam (Multiple Choice Question) Test Period: 90 Minutes Total Marks: 100

Subject	Торіс	Weightage
General English	Comprehension, One word substitution, Synonyms and Antonyms, Spelling error, Spotting error in sentences, Grammar Noun, Pronoun, Adjective, Verb, Preposition, Conjunction, Use of 'A', 'AN' and 'THE', Idioms and Phrases	20 Questions each 01 mark [20]
General Hindi	OR गद्यांश आधरित प्रश्न तत्सम, तद्वव, पर्यायवाची, विलोम, मुहावरे और लोकोतियाँ, शुद्व — अशुद्ववाक्य, संधि— विच्छेद, अलंकार और समास, वचन, लिंग, अनेकार्थी और वाक्य के लिए एक शब्द	
General Knowledge	India History, Indian Geography, Indian Economy, Indian Polity & Constitution, Scientific Research, awards, Sports, Current Affairs-India & World	each 01 mark
Logical Reasoning	Analogies – Semantic Analogy, Symbolic/Number Analogy, Figural Analogy, Symbolic/ Number Analogy, Figural Analogy, Similarities and differences, word building, relation concepts, Arithmetic number series, Semantic Series, Number Series, Coding and Decoding- small & Capital Letters/numbers coding, decoding and classification	20 Questions each 01 mark [20]

Subject	Торіс	Weightage
Computer Literacy	Characteristics of Computer, Computer Organization including RAM, ROM, File System, Input Devices, Computer Software- Relationship between Hardware and Software, Operating System, MS-Office (exposure of Word, Excel/spread sheet, Power point), Information Technology and Society- Indian IT Act, Digital Signatures, Application of information technology in Government for E- Governance mobile/Smartphone's Information Kiosks	each 01 mark
Quantitative Aptitude	Number system, HCF, LCM, Simplification, Decimal Fractions, Ratio and Proportions, Unitary Method, Percentage, Time and Distance, Time and Work, Profit and Loss, Average, Simple and Compound Interest, Menstruation (2 D and 3 D), Algebra, Data Interpretation.	each 01 mark

# **Syllabus for the post of Lower Division Clerk**

### Test Type: Written Exam (Multiple Choice Question) Test Period: 90 Minutes Total Marks: 100

Subject	Торіс	Weightage
General English	Comprehension, One word substitution, Synonyms and Antonyms, Spelling error, Spotting error in sentences, Grammar Noun, Pronoun, Adjective, Verb, Preposition, Conjunction, Use of 'A', 'AN' and 'THE', Idioms and Phrases	20 Questions each 01 mark [20]
	OR	
General Hindi	गद्यांश आधरित प्रश्न तत्सम, तद्वव, पर्यायवाची, विलोम, मुहावरे और लोकोतियाँ, शुद्व – अशुद्ववाक्य, संधि– विच्छेद, अलंकार और समास, वचन, लिंग, अनेकार्थी और वाक्य के लिए एक शब्द	
General Knowledge	India History, Indian Geography, Indian Economy, Indian Polity & Constitution, Scientific Research, awards, Sports, Current Affairs-India & World	20 Questions each 01 mark [20]
Logical Reasoning	Analogies – Semantic Analogy, Symbolic/ Number Analogy, Figural Analogy, Symbolic/ Number Analogy, Figural Analogy, Similarities and differences, word building, relation concepts, Arithmetic number series, Semantic Series, Number Series, Coding and Decoding- small & Capital Letters/numbers coding, decoding and classification	20 Questions each 01 mark [20]
Computer Literacy	Characteristics of Computer, Computer Organisation including RAM, ROM, File System, Input Devices, Computer Software-Relationship between Hardware and Software, Operating System, MS-Office (exposure of Word, Excel/spread sheet, Power point), Information Technology and Society- Indian IT Act, Digital Signatures, Application of information technology in Government for E- Governance mobile/Smartphone's Information Kiosks	20 Questions each 01 mark [20]
Subject	Торіс	Weightage

Quantitative	Number system, HCF, LCM, Simplification,	20 Questions
Aptitude	Decimal Fractions, Ratio and Proportions, Unitary	each 01 mark
	Method, Percentage, Time and Distance, Time and	[20]
	Work, Profit and Loss, Average, Simple and	
	Compound Interest, Menstruation (2 D and 3 D),	
	Algebra, Data Interpretation.	