Deputy Commissioner (Group-A)
(Scheme &Syllabus for Direct Recruitment)

Test Duration	03 hours
Total Questions	200 Objective type multiple choice questions
Total Marks	200 Marks

I otal Marks	200 Marks		
Section name (Nature of Questions)		Marks per item	No. of items
Part-I: Reasoning Ability Analogies - Semantic Analogy, Symbolic Figural Analogy, Similarities and difference relationship concepts, Arithmetic number of Series, Number Series, Coding and december of the coding	ses, word building, series, - Semantic coding - Small &	01 mark per question.	20 questions
Part-II : General English & General Hindi A. General English i. Comprehension -10 marks ii. Word Power -10 marks iii. Language -10 marks B. General Hindi i. कम्प्रिहेन्सन -10 marks ii. शब्द सामर्थ्य -10 marks iii. भाषा -10 marks		01 mark per question. 30 Marks 30 Marks	60 questions
Part-III: General Knowledge: Indian History, Indian Geography, Indian Ec Polity & Constitution, Scientific Research, av Current affairs-India & World		01 mark per question.	20 questions
Part-IV: Contemporary issues in Education Education system in India (a) The Constitutional Context Constitutional values and education Fundamental rights and duties) Right to Free and Compulsory Education Inclusive Education (b) The Social Context of Educational Pole Challenges posed for education by the economic context Child labour Child abuse-POCSO Act Composition of Indian society and it education Classroom ethos from the perspective	ation (Preamble, n2010 (RTE) licyp socio-cultural and ts implications for	01 mark per question. 05 Marks 03 Marks	20 questions
diverse socio-cultural and economic bac (c) A Thematic Focus on Educational Pol • Kothari Commission and the vision of C National Policy on Education 1986 • Ramamurthy Committee 1992 • Yashpal Report 1993 • National Curriculum Framework 2005 • Three-language formula • Zakir Hussain Committee • Basic Education	kgrounds icy	03 Marks	
Mudaliar CommissionSkills and vocational education		03 Marks	

(d) Social and Educational Reform		
Innovations and experiments		
(e) The System and its Structures	03 Marks	
Schools in India:Types and Affiliation		
KVS, NVS, Sainik Schools		
Concerns for 'quality' and equity		
Management and public participation		
NCTE, NCERT, NIOS, Boards of Education etc.	00.14	
(f) History of Education System in India	03 Marks	
Withering away of traditional Indian System of Education		
Teaching through the medium of English and Lord Macaulay's view.		
Wood's Dispatch.		
Weaknesses of British Education Policies in India.		
Part-V: Management Aptitude:	01 mark per	30 questions
Management: its nature and scope; The Management	question.	
Processes; Planning, Organisation, Staffing, Directing and		
Controlling; The Role of a Manager in an Organisation.		
Leadership: The Tasks of a Leader; Leadership Styles;		
Leadership Theories; A successful Leader versus an effective		
Leader. Human Resource Development: Concept of HRD;		
Goals of HRD; Performance Appraisal – Potential appraisal		
and development – Feedback and Performance Counselling –		
Career Planning - Training and Development - Rewards -		
Employee Welfare Motivation, Morale and Incentives:		
Theories of Motivation; How Managers Motivate; Concept of		
Morale; Factors determining morale; Role of Incentives in		
Building up Morale. Communication: Steps in the		
Communication Process; Communication Channels; Oral		
versus Written Communication; Verbal versus non-verbal		
Communication; upward, downward and lateral		
communication; Barriers to Communication, Role of		
Information Technology.		
intermation recipiology.		
Part-VI: Office and Financial Procedure	01 mark per	50 questions
- Office Procedure & Office Management		Jo questions
- General Financial Rules -2017	question.	
- FR & SR		
- Medical Attendance Rules		
- Travelling Allowance Rules		
- LTC Rules		
- CCS Leave Rules		
- CCS(CCA) Rules, 1965		
- CCS(Conduct) Rules, 1964		
- CCS(Pension) Rules-1972		
- Joining Time Rules		
- Provident Fund Rules & New Pension Scheme		
- Reservation Policy		
- APAR		

Interview : 100 Marks Weightage of Written/Online Computer Based Test and Interview - 85:15

Assistant Engineer (Civil) (Group-B)
(Scheme & Syllabus for Direct Recruitment)
Test Duration 03 hours

Total Overtions	00 110013		
Total Questions	200 Objective type multiple choice questions		
Total Marks 200 Marks			
Section name (Nature of Questions)		Marks per item	No. of items
Part-I: General Knowledge Indian History, Indian Geography, Indian Economy, Indian Polity & Constitution, Scientific Research, awards, Sports, Current affairs-India & World			20 questions
Part-II: Reasoning Ability Analogies - Semantic Analogy, Symbolic/Number Analogy, Figural Analogy, Similarities and differences, word building, relationship concepts, Arithmetic number series, - Semantic Series, Number Series, Coding and decoding - Small & Capital letters/numbers coding, decoding and classification		01 mark per question.	20 questions
Part-III: English and Hindi Knowledge 1.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		01 mark per question.	40 questions
2.General Hindi तत्सम, तद्भव, पर्यायवाची, विलोम, मुहावरे औ अशुद्ध वाक्य, संधि-विच्छेद, अलंकार और स अनेकार्थी और वाक्य के लिए एक शब्द	J		
Part-IV: Quantitative Aptitude Number System, Time and W Percentages, Profit and loss, Ratio a Simple and Compound Interest, Time and	and Proportions,	01 mark per question.	20 questions
Part-V: Subjective paper 1. Building Materials: Stone, Lime, Glass, Plastic, Steel, Aluminum, Fly Ash, Basic Admixtures, Ti Aggregates: Classification, Properties criteria; Cement: Type, Composition, Pro Specifications and various Tests; Lime & and Concrete: Properties and various Concrete Mixes: Proportioning of a methods of mix design.	mber, Bricks and s and Selection perties, Uses, Cement Mortars	01 mark per question	30 questions
2. Design of Concrete and Masonry Str Limit state design for bending, shear, as and combined forces; Design of beams Foundations, Retaining walls, Tanl Principles of pre-stressed concrete d materials and methods; Earthquake res structures; Design of Masonry Structure.	xial compression s, slabs, Lintels, ks, Staircases; esigns including	01 mark per question	20 Questions

3. Construction Practice, Planning and Management: Construction – Planning, Equipment, Site investigation and Management including Estimation with latest project management tools and network analysis for different Types of works; Analysis of Rate of various types of works; Tendering Process and Contract Management, Quality Control, Productivity, Operation Cost; Land acquisition; Labour safety and welfare.	01 mark per question	20 Questions
 4. Geo-technical Engineering and Foundation Engineering: a) Geo-Technical Engineering: Soil exploration — Planning & methods, Properties of Soil, classification, various tests and inter-relationships; Permeability & Seepage, Compressibility, consolidation and shearing resistance, Earth pressure theories and stress distribution in soil; Properties and uses of geosynthetics. b) Foundation Engineering: Types of Foundation & selection criteria, bearing capacity, settlement analysis, design and testing of shallow and deep Foundations; Slope Stability analysis, Earthen embankments, Dams and Earth retaining structures; types, analysis and design, Principles of ground modifications. 	01 mark per question	15 Questions
	01 mark per question	15 Questions

Interview: 100 Marks

Weightage of Written/Online Computer Based Test and Interview - 85:15

Assistant Engineer (Electrical) (Group-B)
(Scheme & Syllabus for Direct Recruitment)

Test Duration	03 hours
Total Questions	200 Objective type multiple choice questions
Total Marks	200 Marks

Total Marks 200 Marks			
Section name (Nature of Questions)	Marks per item	No. of items	
Part-I: General Knowledge Indian History, Indian Geography, Indian Economy, Indian Polity & Constitution, Scientific Research, awards, Sports, Current affairs-India & World	01 mark per question.	20 questions	
Part-II: Reasoning Ability Analogies - Semantic Analogy, Symbolic/Number Analogy, Figural Analogy, Similarities and differences, word building, relationship concepts, Arithmetic number series, - Semantic Series, Number Series, Coding and decoding - Small & Capital letters/numbers coding, decoding and classification	01 mark per question.	20 questions	
Part-III: English and Hindi Knowledge 1.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 2.General Hindi तत्सम, तद्भव, पर्यायवाची, विलोम, मुहावरे और लोकोक्तियाँ, शुद्ध, अशुद्ध वाक्य, संधि-विच्छेद, अलंकार और समास, वचन, लिंग, अनेकार्थी और वाक्य के लिए एक शब्द	01 mark per question.	40 questions	
Part-IV: Quantitative Aptitude Number System, Time and Work, Averages, Percentages, Profit and loss, Ratio and Proportions, Simple and Compound Interest, Time and Distance	01 mark per question.	20 questions	
Part-V: Subjective paper 1. Engineering Mathematics Matrix theory, Eigen values & Eigen vectors, system of linear equations, Numerical method for solution of non-linear algebraic equations and differential equations, integral calculus, partial derivatives, maxima and minima, line, surface and Volume integrals. Fourier series, linear, non-linear and partial differential equations, initial and boundary value problems, complex variables, Taylor's and Laurent's series, residue theorem, probability and statistics fundamentals, Sampling theorem, random variables, Normal and poisson distributions, correlation and regression analysis.	01 mark per question	25 questions	
2. Electrical Materials Electrical Engineering Materials, crystal structures and defects, ceramic materials, insulating materials, magnetic materials basics, properties and applications; ferrities, ferro-magnetic materials and components;	01 mark per question	25 questions	

basics of soild state physics, conductors; photo- conductivity; Basics of Nano materials and superconductors.		
3. Electric Circuits and Fields: Circuit elements, network graph, KCL, KVL, Node and Mesh analysis, ideal current and voltage sources, Thevenin's, Norton's, Superposition and Maximum Power Transfer theorems, transient response of DC and AC networks, Sinusoidal steady state analysis, basic filter concepts, two-port networks, three phase circuits, Magnetically coupled circuits, Gauss Theorem, electric field and potential due to point, line, plane and spherical charge distributions, Ampere's and Biot-Savart's law; inductance, dielectrics, capacitance; Maxwell's equations.	01 mark per question	25 Questions
4. Control Systems: Principles of feedback, transfer function, block diagrams and signal flow graphs, steady-state errors, transforms and their applications; Routh-hurwitz criterion. Nyquist techniques, Bode plots, root loci, lag, lead and lead-lag compensation, stability analysis, transient and frequency response analysis, state space model, state transition matrix, controllability and observability, linear state variable feedback, PID and industrial controllers.	01 mark per question	25 Questions

Interview: 100 Marks

Weightage of Written/Online Computer Based Test and Interview - 85:15