EXAMINATION CENTRE
Shalimar, Srinagar – 190025

Syllabus for Conducting Written Test for **Accounts Assistant** Position Question paper shall contain Total 100 questions and the candidates have to attend all the questions.

Examination Type and Time Allotted	**Name of the Subject**	**Distribution of (Total points 100)**
Objective type 1 hour forty minutes (100 minutes)	General Awareness With Special Reference of J&K UT	**10**
	Accountancy And Book Keeping	**20**
	General English	**20**
	Basic Statistics/Mathematics	**10**
	Knowledge of Computers	**20**
	General Intelligence and Reasoning	**20**

General Knowledge with special reference to J&K UT (i) Current Events of National and International importance (ii) Political & Physical divisions of world & India (iii) Indian Culture, Heritage and Freedom Struggle/Movement. (iv) Transport & Communication. (v) Demography-Census, its feature and functions. (vi)Important Rivers & Lakes in India. (vii) Weather, Climate, Crops, Means of Transport of India. (Viii) Environment, Ecology & Bio-diversity. (ix) J&K UT a) History b) Economy c) Geography- (Weather, Climate, Crops, Rivers, Lakes, Flora, Fauna etc.) d) Heritage & Culture e) Important Tourist Destinations (xxi) J&K Reorganisation Act, 2019.

Accountancy and Book Keeping(i) Introduction to Financial Accounting and its terms. (ii) Accounting equation and Journal. (iii) Voucher Approach in Accounting. (iv) Bank Reconciliation Statement. (v) Financial Management/Statements. (vi) Ledger Accounts. (vii) Cash Book, Financial Audit. (viii) Elements of Double entry Book Keeping. (ix) Trial Balance. (x) Profit Loss Account and Balance Sheet. (xi) Public Financial Management System (PFMS). (xii) Taxation, Tax Laws-Direct, Indirect (xiii) Cost Management-Budgetary control (xiv) Cost Accounting (xv) Developments in Accounting

GENERAL ENGLISH (i) Tenses (ii) Rearranging of jumbled sentences. (iii) Narration (iv) Modals (v) Articles (vi) Comprehension with blanks to be filled in with i. Phrases ii. Pronouns iii. Homonyms / homophones. (xii) Clauses (xiii) Synonyms and antonyms (xiv) Pairs of words and their use in meaningful sentences. (xv) Idioms and phrases. (xvi) Uses of Prepositions. (xvii) Active & Passive Voice

Statistics/Mathematics (i) Primary and secondary data. (ii) Methods of collecting Primary and Secondary Data (iii) Preparation of questionnaires (iv) Tabulation and compilation of Data (v) Measures of central Tendency (vi) Demography-Census, its features and functions (vii) Simple and compound interest.

Knowledge of Computers (i) Basic Applications of Computer and its component. (ii) Fundamentals of computer sciences. (iii) Concept of Open Source Technologies. (iii) Input & output Devices. (iv) Operating system (v) Knowledge of MS Word, MS Excel, MS Access, MS Power point, PDF Internet and E-mail. (vi)Concept of Computer Virus and Anti-Virus. (vii) Hardware & Software, Elements of Computers Processing System Hardware , CPU, Peripherals, Storage Media, Software Definition, Role and Categories Firmware and Human-ware. (viii)Role of Information Technology in Governance.

General Intelligence/Reasoning: This section of question paper will contain questions of both verbal and non-verbal type. The test will include questions on analogies, blood relations, decision making, visual memory, judgement, order and raking, syllogism, inequality, data sufficiency, input – output, coding – decoding, puzzles, alphanumeric series, direction based questions, logical reasoning. The test will also include questions designed to test the candidate's abilities to deal with abstract ideas and symbols and their relationship, numerical aptitude, arithmetical computation and other analytical functions.

Controller of Examinations

EXAMINATION CENTRE
Shalimar, Srinagar – 190025

Syllabus for Conducting Written Test for **Assistant-cum-Typist Position** Question paper shall contain Total 100 questions and the candidates have to attend all the questions.

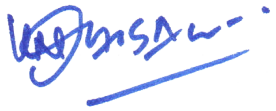
Examination Type and Time Allotted	**Name of the Subject**	**Distribution of (Total points 100)**
Objective type **1 hour forty minutes** **(100 minutes)**	General Awareness With Special Reference of J&K UT	**25**
	General English & Comprehension	**25**
	General Intelligence & Reasoning	**25**
	Computer Applications	**25**

1. General Knowledge with special reference to J&K UT (i) Current Events of National and International importance (ii) Political & Physical divisions of world & India (iii) Indian Culture, Heritage and Freedom Struggle/Movement. (iv) Transport & Communication. (v) Demography-Census, its feature and functions. (vi)Important Rivers & Lakes in India. (vii) Weather, Climate, Crops, Means of Transport of India. (Viii) Environment, Ecology & Bio-diversity. (ix) J&K UT a) History b) Economy c) Geography- (Weather, Climate, Crops, Rivers, Lakes, Flora, Fauna etc.) d) Heritage & Culture e) Important Tourist Destinations (xxi) J&K Reorganisation Act, 2019

2. GENERAL ENGLISH & COMPREHENSION (i) Tenses (ii) Narration (iii) Modals (iv) Articles (v) Reading Comprehension (vi) Fill in the blanks with Phrases, Pronouns, homonyms/ homophones etc (vii) Clauses (viii) Synonyms and antonyms (ix) Pairs of words and their use in meaningful sentences. (x) Rearranging of jumbled sentences. (xi) Idioms and phrases. (xii) Uses of Prepositions. (xiii) Active & Passive Voice (xiv) Error Spotting (xv) Sentence Correction (xvi) Spellings Correction

3. GENERAL INTELLIGENCE & REASONING (i) Number series, Letter series, Semantic Series, Speed, Distance and Time, Statements and conclusions, Logical Reasoning, Mental Reasoning, Word Building, Numerical Operations, Semantic Analogy, Symbolic/ Number Analogy, Figural Analogy, Semantic Classification, Symbolic/ Number Classification, Figural Classification, Problem Solving. (ii) Symbolic Operations, Trends, Space Orientation, Space Visualization, Venn Diagrams, Drawing inferences, Punched hole/ pattern- folding & un-folding, Figural Pattern- folding and completion, Indexing, Address matching, Date & city matching, Classification of centre codes/roll numbers, Small & Capital letters.

4. COMPUTER APPLICATIONS (i) Basic Applications of Computer and its component. (ii) Fundamentals of computer sciences. (iii) Hardware & Software, Concept of Open-Source Technologies. (iv) Input & output Devices. (v) Knowledge of MS Word, MS Excel, MS Access, MS PowerPoint, PDF, Internet and E-mail. (vi) Concept of Computer Virus and Latest Anti-Virus. (vii) Terms and Abbreviation used in IT. (viii) Role of Information Technology in Governance



Controller of Examinations

EXAMINATION CENTRE
Shalimar, Srinagar – 190025

Syllabus for Conducting Written Test for **Library Assistant** Position Question paper shall contain Total 100 questions and the candidates have to attend all the questions.

1) Basis Reasoning = 10 Marks

Analogies, Relationship concepts, Figure odd one out, Direct Sense, Number series

2) Basis English = 10 Marks

Articles, Synonyms/Antonyms, Preposition, Verbs, Spellings

3) General Awareness = 10 Marks

General current events (National Level), Sports, India culture, Capital/State, Geography of Jammu and Kashmir, History of Jammu and Kashmir, J&K Reorganization Act,2019

Subject Matter-70

Unit-I

(i) Types of Libraries and their Features
(ii) Five Laws of Library Sciences
(iii) Library legislations in India
(iv) Digital Library
(v) Intellectual Property Rights (IPR)
(vi) National and International Library Associations: ILA, IASLIC, IFLA, ALA, etc, DESIDOC, etc.
vii) National and intercalation Agencies: UNESCO, OCLC, UGC, INFLIBNET, DELNET etc. (viii) Information Centres, DRTC, ISI, NISCAIR, NASSDOC

Unit-II

(i) Basic Terminology: Call Number, Class Number, Book Number, Isolates
(ii) Classification; concept & purpose.
(iii) Types and characteristics of classification scheme.
(iv) ISBD, ISBN, ISSN;
(v) Classification schemes. Features of DDC, UDC, and CC (vi) Five Fundamental Categories
(vi) Notation: Definition and Purpose
(vii) Library Catalogue; Definition and purpose
(viii) Cannons of Classification and Cataloguing

Unit-III

(i) Principles of Book Selection
(ii) Selection Tool; Print and Non-Print Materials

(iii) Processing of Documents; Accessioning, Classification, Cataloguing, labelling and shelving
(iv) Difference between catalogue, Accession Register, bibliography and Shelf list.
(v) Serials/Journals; Selection and procurement
(vi) Book Transaction System: Traditional and Modern
(vii) Stock verification of Books; Methods and Tools
(viii) Weeding Process.

Unit-IV

(i) Information sources: Definition, types and importance.
(ii) Information Services - Types of Reference service, CAS/SDI, Ready reference service, Long Rang Reference Service
(iii) Reference Librarian: Role Skills and Competences
(iv) Types of Dictionaries, Encyclopaedias
(v) Geographical and Biographical Sources
(vi) Indexing and Abstracting Sources
(vii) Types of Bibliographies
(viii) Bibliographical Sources.
(ix) User Education/ Information Literacy Skills (x) International Information System; INIS, AGRIS, MEDLARS/MEDLINE.

Unit-V

(i) Library Automation
(ii) Barcode, RFID, QR Code, Biometric System, Smart Card - Features & Applications.
(iii) Digital Libraries and Institutional Repositories; Initiatives – National & Institutional.
(iv) Computer Technology - Computer Hardware/Software.
(v) Computer Networks - Topologies, Types of Networks.
(vi) Internet and WWW; Search Engines.
(vii) Data Security, Network Security, Firewalls, Anti-Virus Software.

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EXAMINATION CENTRE
Shalimar, Srinagar – 190025

Syllabus for Conducting Written Test for **Binder/Cutter** Position Question paper shall contain Total 100 questions and the candidates have to attend all the questions.

Syllabus for Binder/Cutter **MM-100**

1) **Basic Reasoning = 10 Marks**
   - Analogies
   - Relationship concepts
   - Figure odd one out
   - Number series
2) **Basic English = 10 Marks**
   - Articles
   - Synonyms/Antonyms
   - Verbs
   - Spellings
3) **General Awareness = 10 Marks**
   - General current events (National Level)
   - Sports
   - India culture
   - Capital/State
   - J&K Reorganization Act,2019
4) **Arithmetic & numerical ability = 10 Marks**
   - Addition, Subtraction, Multiplication, Division, Percentage, Ratio, Average, Time, work, Distance.

5) **Domain Knowledge =60 Marks**

   - Digital cutting machines
   - Folding machines
   - Binding techniques
   - Lamination and finishing
   - Packaging of printed material
   - Stacking of paper
   - Manual binding technique
   - Knowledge about paper materials.
   - Digital binding technique
   - Paper sizes

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SKUAST KASHMIR

EXAMINATION CENTRE

Shalimar, Srinagar-190025

Syllabus for conducting written Test for Electrician Position

Total Questions:-100

Examination Type	Name of the Subject	Marks
Written Test (Objective Type)	General Knowledge	20
	General English	10
	Arithmetical & Numerical Ability	10
	Trade (Electrician)	60

General Knowledge:
(i) Current events of National importance (ii) Honours and Awards (iii) The World of Sports (iv) Geographical Discoveries (v) Principal Languages of India (vi) Capitals and Currencies of Countries (i) History, Geography, Culture and Economy of UT of Jammu and Kashmir (ii) Flora and Fauna of J&K (iii) Rivers and Lakes (iv) Important Tourist Destinations of UT of Jammu and Kashmir

General English: Phrases, Use of correct verbs, choosing appropriate words, Antonyms & Synonyms, Fill in the blanks, Tenses, Rearranging of jumbled sentences, Narration, Modals, Articles.

Arithmetical & Numerical Ability: Addition, Subtraction, Multiplication, Division, Percentage, Ratio, Average, Time, work, Distance.

Trade (Electrician): Occupational Safety & Health, Identification of trade-Hand tools-Specifications, Fundamentals of Electricity, Resistors, Types & their properties, National Electrical Code 2011, Units & Dimensions, Ohm's Law, Kirchoff's Law, Common Electrical Accessories, their specifications in line with NEC-2011,IEC electric current, and LV Control devices. Different types of lead acid cells, Care and maintenance of Cells, Inverter, Battery Charger, UPS-Principle of working , Magnetism, Resistance, D.C. Machines, Principle of D.C. Generator, D.C. Motors-Terms used in D.C. Motors, Electric wirings, Wiring System, Earthing, Alternating Current, Transformer, Electrical Measuring instruments, Induction Motor, Fuse, Industrial wiring, Basic Electronics, UPS, DC/AC Motor drives using transistor/thyristor. Voltage regulator.

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EXAMINATION CENTRE
Shalimar, Srinagar – 190025

Syllabus for Conducting Written Test for **Audio-Visual Operator** Position Question paper shall contain Total 100 questions and the candidates have to attend all the questions.

Syllabus for Audio-Visual Operator MM-100

1) **Basic Reasoning = 10 Marks**
   - Analogies
   - Relationship concepts
   - Figure odd one out
   - Number series
2) **Basic English = 10 Marks**
   - Articles
   - Synonyms/Antonyms
   - Verbs
   - Spellings
3) **General Awareness = 10 Marks**
   - General current events (National Level)
   - Sports
   - India culture
   - Capital/State
   - J&K Reorganization Act,2019
4) **Arithmetic & numerical ability = 10 Marks**
   - Addition, Subtraction, Multiplication, Division, Percentage, Ratio, Average, Time, work, Distance.

5) Domain Knowledge=60 Marks

1: Basic Electronics Fundamentals

- Basic electrical quantities: Voltage, Current, Resistance, Power
- Ohm's Law and Kirchhoff's Laws
- AC and DC circuits – basic concepts
- Electronic components: Resistors, Capacitors, Inductors
- Semiconductor devices: Diodes and Transistors
- Rectifiers and power supply basics
- Electrical and electronic safety precautions

2: Electronic Instruments and Measurement

- Measuring instruments: Multimeter, Clamp Meter, Oscilloscope (basic use)
- Basic electrical and electronic measurements

- Signal types and waveform basics
- Troubleshooting methods for electronic circuits
- Soldering and desoldering techniques
- Preventive maintenance of electronic equipment

3: Audio-Video Systems and Equipment Handling

- Basics of sound systems: Microphones, Mixers, Amplifiers, Speakers
- Video equipment: Cameras, Projectors, LED/LCD display systems
- Audio-video connectors and cables (HDMI, VGA, RCA, XLR etc.)
- Installation and operation of Public Address (PA) systems
- Conferencing and multimedia presentation systems
- Troubleshooting common audio-video equipment faults
- Safe handling and maintenance of AV equipment

4: Information Technology and Electronic System Maintenance

- Basics of computer hardware and peripherals
- Operating system basics and device connectivity
- Basics of networking (LAN, routers, switches)
- Storage devices and data transfer
- Preventive maintenance of electronic and IT equipment
- Workplace safety practices and basic documents.

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EXAMINATION CENTRE
Shalimar, Srinagar – 190025

Syllabus for Conducting Written Test for **Machine Assistant (Printing Press)** Position Question paper shall contain Total 100 questions and the candidates have to attend all the questions.

Syllabus for the Post of Machine Assistant (Printing Press) MM-100

1) **Basic Reasoning = 10 Marks**
   - Analogies
   - Relationship concepts
   - Figure odd one out
   - Number series
2) **Basic English = 10 Marks**
   - Articles
   - Synonyms/Antonyms
   - Verbs
   - Spellings
3) **General Awareness = 10 Marks**
   - General current events (National Level)
   - Sports
   - India culture
   - Capital/State
   - J&K Reorganization Act,2019
4) **Arithmetic & numerical ability = 10 Marks**
   - Addition, Subtraction, Multiplication, Division, Percentage, Ratio, Average, Time, work, Distance.
5) **Domain Knowledge =60 Marks**
   - Conventional and Digital Printing
   - Printing workflow
   - Basics of Desktop Publishing (DTP)
   - Page Layout and Imposition Concepts.
   - Colour Models
   - Resolution and Image Formats
   - Basic Knowledge of Commonly used design and printing softwares
   - File Formats used in Printing
   - Printing Materials and consumables
   - Colour Management
   - Digital printing Machine operation

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EXAMINATION CENTRE
Shalimar, Srinagar – 190025

Syllabus for Conducting Written Test for the post of **Sr.Mechanic (Maintenance Engineer)** Question paper shall contain Total 100 questions and the candidates have to attend all the questions.

Examination Type and Time Allotted	**Name of the Subject**	**Distribution of (Total points 100)**
Objective type 1 hour forty minutes (100 minutes)	**Mathematics**	05
	Farm Machinery and Power Engineering and Renewable Energy Engineering	17
	Soil and Water Conservation Engineering and irrigation and Drainage engg	15
	Protected Cultivation and Secondary Agriculture	15
	Electrical Circuit Analysis:	8
	Electric Machines :	10
	Power Systems	10
	Control Systems:	10
	Electrical Measurements & Instrumentation	10
	Total	100

Mathematics: Elementary Statistics and theory of probability, differential and integral calculus, linear algebra and Fourier series, differential equations, vector algebra and vector calculus.

Farm Machinery and Power Engineering: Importance of farm equipment and role of mechanization in enhancing productivity & profitability of Indian agriculture; analysis of forces, design and production of farm machinery and power units; mechanics of tillage & traction operation, repair and maintenance of farm machines and equipment, farm engines; tractors and power tillers; tractor stability and operators comfort; field capacity and cost

analysis; test codes and procedure; safety and ergonomic principles.

Soil and Water Conservation Engineering: Hydrologic cycle, precipitation, factors affecting runoff, hydrograph, soil erosion, water erosion, gullies and their classification, soil loss estimation - universal soil loss equation and modified soil loss equation, erosion control measures, wind erosion, sedimentation - sedimentation in reservoirs and streams, land use capability classification, introduction to water harvesting techniques.

Irrigation and Drainage Engineering: Measurement of irrigation water, soil water plant relationship, irrigation efficiencies, surface irrigation methods of water application, aquifer and its types, classification of wells, steady and transient flow into wells, surface drainage, drainage coefficient, types of surface drainage, sub-surface drainage, design of surface drains, interceptor and relief drains, design of subsurface drainage system, drainage of irrigated and humid areas, salt balance, reclamation of saline and alkaline soils, leaching requirements.

Renewable Energy Engineering: Classification of energy sources; characterization of biomass; types, construction, working principle, uses and safety/environmental aspects of different renewable energy devices like gasifiers, biogas plants, solar passive heating devices, photovoltaic cells and arrays; brief introduction to wind energy, hydroelectric energy

Processing and Food Engineering: Biochemical and engineering properties of biological materials; quality control & safety of raw and finished products. Principles, practices and equipments for drying, milling, separation and storage of agricultural produce and by-products; material handling equipment and operations; farmstead planning; heating & cooling load calculation; seed processing practices and equipments; food preservation methods and products development; refrigeration and air conditioning; cold stores; waste management, processing of milk and dairy equipment.

Protected Cultivation and Secondary Agriculture: Greenhouse technology: Introduction, types of green houses, planning and design of greenhouses, design criteria of green house for cooling and heating purposes, greenhouse equipment, materials of construction for traditional and low cost greenhouses, irrigation systems used in greenhouses, typical applications, passive solar greenhouse, hot air greenhouse heating systems, greenhouse drying.

Electrical Circuit Analysis: D.C circuit Analysis: series and parallel resistors, KCL, KVL, circuit theorems, Nodal analysis, and mesh current analysis. A.C circuit Analysis: R, L, C, R-L, R-C, L-C, R-L-C (series and parallel) circuits excited by sinusoidal AC, Application of KCL. KVL and circuit theorem, series and parallel resonance, Power in AC circuits, concept of power factor and power-factor improvement. Networks, Signals and Systems: Circuit analysis: Node and mesh analysis, superposition, Thevenin's theorem, Norton's theorem, reciprocity. Sinusoidal steady state analysis: phasors, complex power, maximum power transfer. Time- and frequency-domain analysis of linear circuits: RL, RC, and RLC circuits; solution of network equations using the Laplace transform.

Electric Machines: Transformers: Construction, Detailed Analysis, Equivalent circuit diagram, phasor diagram, efficiency, voltage regulation, analysis of three-phase transformers, transformer tests, instrument transformers. D.C Machines: Principle of operation, Emf and torque equations, equivalent and circuits, types of DC machines, DC Generator characteristics, parallel operation, DC Motor Torque speed characteristics, Speed control techniques, DC motor starting, Applications. Induction Machines: Operating principle, Torque equation, Equivalent circuit, no-load and blocked rotor tests, torque speed characteristics, Speed–control techniques, starting, Applications, Induction generator.

Synchronous Machines: Voltage equation, windings, tests, characteristics, application, synchronous motor starting, V-curves, Synchronous condenser.

Power Systems: Power generation, transmission and distribution. Elements of DC & AC distribution. Transmission line parameters and their evaluations, types of overhead conductors. Classification of cables, cable conductors, insulating materials, insulation resistance, and grading of cables. Per unit representation. Faults, types of faults. Insulation co-ordination, surge performance & travelling waves on transmission lines. Load Flows: Bus classification, network model formulation, bus incidence matrix, load flow equations. Power system stability: The stability problem, steady state, dynamic and transient stability, rotor dynamics and swing equation, power-angle curve, equal-area criterion, automatic generation control, power system protection, overcurrent, overvoltage, differential protection, distance relays. Power semiconducting devices, characteristics, series and parallel operations of Thyristor, single-phase and three phase uncontrolled and controlled rectifiers, DC-DC converters (Continuous and Discontinuous conduction modes of operation), AC voltage controllers, Inverter, Variable-frequency Induction motor drives, Converter-Fed DC Motor Drives, Chopper-Fed DC Motor Drives, Electric Drives, Applications of Power Electronics.

Control Systems: Introduction of continuous control systems: Open-loop, closed-loop (automatic and manual) control, Mathematical modelling: Transfer functions, block diagrams, signal flow graphs. First and second order system: sample of first and second order systems, responses of theirs systems to step, ramp, parabolic and sinusoidal inputs, transient, steady state and error analysis, Stability studies: stability and pole locations, stability and Routh Table, stability and frequency response bode plot, polar plot, Nyquist's criterion, root locus, proportional, integral, Derivative (P.I.D) control, state variable modelling Digital control system: Hardware elements of a digital control system, Z–transform, Nonlinear control systems. Linearization of Non-linear control system about and nominal operating point, analysis and design using linearized models.

Electrical Measurements & Instrumentation: Electro-mechanical indicating instruments, Classification, effects utilized in measuring instruments, errors and their types, various methods of damping, galvanometers (D' Arsenal and Ballistic) Ammeters and Voltmeters (PMMC, Induction, electrostatic and Dynamometer type), errors in voltmeters and ammeters, extension of instrument range, ammeter shunts, voltmeter multipliers, Measurement of Power, Energy and Power Factor Measurement of reactive power (single phase and 3-phase), Energy measurement using induction type classification, Wheatstone bridge, Meggar, Measurement of inductance, Capacitance and Frequency using A.C. bridges, Potentiometers; D.C instrumentation: Introduction of virtual instrumentation. Measurement of Electrical and non-electrical quantities using a virtual instrument control System. Renewable Energy: Solar, wind and hybrid. multimeter, intrinsic and extrinsic semiconductors, PN junction diode, Zener diode, single phase transformers, transformer losses, analog and digital systems, digital gates, Boolean Algebra, optical fibre, working principle, its structure, losses and applications, transistor operation, OP Amp and its applications.

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EXAMINATION CENTRE
Shalimar, Srinagar – 190025

Syllabus for Conducting Written Test for **Workshop Assistant** Position Question paper shall contain Total 100 questions and the candidates have to attend all the questions.

Syllabus for Workshop Assistant **MM-100**

1) **Basic Reasoning = 10 Marks**
   - Analogies
   - Relationship concepts
   - Figure odd one out
   - Number series

2) **Basic English = 10 Marks**
   - Articles
   - Synonyms/Antonyms
   - Verbs
   - Spellings

3) **General Awareness = 10 Marks**
   - General current events (National Level)
   - Sports
   - India culture
   - Capital/State
   - J&K Reorganization Act,2019

4) **Arithmetic & numerical ability = 10 Marks**
   - Addition, Subtraction, Multiplication, Division, Percentage, Ratio, Average, Time, work, Distance.
   -

5) Domain Knowledge=60 Marks

1: Basic Electronics Fundamentals

- Basic electrical quantities: Voltage, Current, Resistance, Power
- Ohm's Law and Kirchhoff's Laws
- AC and DC circuits – basic concepts
- Electronic components: Resistors, Capacitors, Inductors
- Semiconductor devices: Diodes and Transistors
- Rectifiers and power supply basics
- Electrical and electronic safety precautions

2: Electronic Instruments and Measurement

- Measuring instruments: Multimeter, Clamp Meter, Oscilloscope (basic use)
- Basic electrical and electronic measurements
- Signal types and waveform basics
- Troubleshooting methods for electronic circuits
- Soldering and desoldering techniques
- Preventive maintenance of electronic equipment

3: Information Technology and Electronic System Maintenance

- Basics of computer hardware and peripherals
- Operating system basics and device connectivity
- Basics of networking (LAN, routers, switches)
- Storage devices and data transfer
- Preventive maintenance of electronic and IT equipment
- Workplace safety practices and basic documents.

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