



EXAMINATION CENTRE  
**Shalimar, Srinagar – 190025**

## **NOTICE**

**Subject: Syllabus for OMR based Recruitment Examinations.**

As approved by Competent Authority, the syllabus for conducting OMR based written test for various Non-Teaching positions Advertised vide University *Notice No. 02 of 2022 dated 06.05.2022* is hereby placed on the public domain for the information of all the concerned. The other details pertaining to the conduct of Examination shall be notified separately. The candidates, in their own interest, are advised to keep visiting University Website for updates in this regard.

*Annexure 1* - Medical Officer

*Annexure 2* - Junior Engineer (Civil)

*Annexure 3* - Accounts Assistant

*Annexure 4* - Draftsman

*Annexure 5* - Stenographer

*Annexure 6* - Livestock/ Veterinary Assistant

*Annexure 7* - Field-cum- Laboratory Assistant (FCLA)

*Annexure 8* - Assistant- cum- Typist (ACT)

*Annexure 9* – Electrician

*Sd/-*

*Prof. (Dr.) K. N. Qaisar*  
*Controller of Examinations*

*No. AU/EC/R-5/2022/210-13*

*Dated: 10.05.2022*

Copy of information to the:

- Director Education, SKUAST-K, Shalimar.
- Office Incharge ARIS with a request to get this notice along with annexures uploaded on the University Website.
- Registrar, SKUAST-K, Shalimar.
- Secretary to Vice-Chancellor, SKUAST-K, Shalimar.



**EXAMINATION CENTRE**  
**Shalimar, Srinagar – 190025**

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

<b>Examination Type and Time Allotted</b>	<b>Name of the Subject</b>	<b>Distribution of (Total points 100)</b>
<b>Objective type 1 hour forty minutes (100 minutes)</b>	<b>General Surgery Including Orthopaedics</b>	<b>15</b>
	<b>Medicine</b>	<b>15</b>
	<b>Obstetrics and Gynaecology</b>	<b>10</b>
	<b>Paediatrics:</b>	<b>05</b>
	<b>Preventive and Social Medicine</b>	<b>10</b>
	<b>Forensic Medicine &amp; Toxicology</b>	<b>05</b>
	<b>Anatomy</b>	<b>05</b>
	<b>Physiology</b>	<b>05</b>
	<b>Biochemistry</b>	<b>05</b>
	<b>Microbiology</b>	<b>05</b>
	<b>Pharmacology</b>	<b>05</b>
	<b>ENT</b>	<b>05</b>
	<b>Ophthalmology</b>	<b>05</b>
	<b>Radiology</b>	<b>05</b>

**1. General Surgery Including Orthopaedics:**

1. Wound healing 2. Fluid and electrolytes 3. Nutritional Support 4. Wound infection, special infections, AIDs 5. Sterilization, methods and precautions 6. Transplantation 7. Tumors 8. Skin diseases and Plastic surgery. Burns. 9. Arterial disorders and venous disorders, Lymphatics 10. Accident and emergency Surgery 11. Cleft lip and palate 12. Disorders of salivary gland 13. Sutures 14. Thyroid 15. Parathyroid and Adernal glands 16. Breast 17. Thorax – Injureis and diseases of Lung, Diaphragm 18. Heart 19. Liver 20. Spleen 21. Gall bladder and Bileducts 22. Pancreas 23. Peritoneum, Omentum, Mesentry and Retroperitoneal spaces. 24. Small and large intestine 25. Intestinal obstruction 26. Appendix 27. Rectum 28. Anus and Anal Canal 29. Hernias 30. Urology 31. Fractures 32. Tumors of Bone, Benign and Malignant 33. Metabolic and Non infection disorders of bones and joints. 34. Infection of Joints, Pyogoenic, Tuberculosis 35. Injuries of spine and pelvis & their management.

**2. Medicine:**

1. Cardinal manifestations and presentation of diseases. 2. Genetics. 3. Nutritional diseases 4. Hematology 5. Infectious diseases 6. Disease of Cardio Vascular system 7. Diseases of Respiratory system 8. Diseases of Kidney and Urinary tract 9. Diseases of Gastro Intestinal system. 10. Diseases of Immune system, connective tissue and joints 11. Endocrinology & Metabolism. 12. Neurologic disorders. 13. Environment and occupational hazards.

**3. Obstetrics and Gynaecology:**

1. Introduction to Obstetrics 2. Development of human placenta and embryo, anomalies of placenta and cord. 3. Formation of liquor amnii and its circulation. 4. Anatomical and physiological changes during pregnancy. 5. Diagnosis of pregnancy 6. Methods of Obstetrical and Pelvic examination and special investigations. 7. Role of USG and Radiology in Obstetrics. 8. Antenatal care including use of drugs during pregnancy. 9. Antepartum, foetal surveillance in high risk pregnancies. 10. Social Obstetrics 11. Anemia in pregnancy 12. Heart diseases in pregnancy. 13. Diabetes, prediabetic state, glycosuria in pregnancy 14. Respiratory diseases in pregnancy. 15. Psychiatric disorders in pregnancy and puerperium 16. Jaundice in pregnancy 17. Skin diseases in pregnancy 18. Urinary Tract infection in pregnancy including Asymptomatic bacteria, chronic renal infection in pregnancy, renal failure in pregnancy. 19. Hypertensive disorders in pregnancy. 20. APH-placental previa accidental haemorrhage and extra placental causes hypo fibrinogenemia, diagnosis and management, DUC annuria. 21. Rh factor Pathology Rh testing and management of pregnancy and new born. 22. Multiple pregnancy 23. Post maturity 24. Intrauterine growth retardation 25. Intrauterine death. 26. Recurrent pregnancy - wastages 27. Surgical Gynecological conditions with pregnancy 28. Abnormal position and presentations 29. Special cases 30. Normal Labour 31. Preterm Labour 32. Abnormal Uterine action 33. Prolonged labour 34. Normal Pelvis and foetal skull 35. Contracted Pelvis, CPD, Pelvic assessment 36. Obstructed Labour 37. Injuries of Genital Tract 38. Injury of the Urinary System 39. Obstetrical Palsy 40. Postpartum Collapse. 41. Normal Puerperium 42. Puerperal infection 43. Neonatology 44. Anatomy of Uro Genital tract 45. Development of Urogenital tract. 46. Physiology of Menstruation, ovulation and Normal Contro. 47. Gynaecological History taking, examination and investigation. 48. Sex differentiation, asexuality & Intersexuality. 49. Amenorrhoea causes, Diagnosis and Management. 50. Infertility Male & Female causes, Diagnosis with investigation and management with newer modalities. 51. Dysmenorrhoea 52. Abnormal uterine bleeding 53. Abortions. 54. Trophoblastic tumors 55. Ectopic pregnancy 56. Infections of Genital tract. 57. Genital prolapse Retroversion 58. Urinary Incontinence 59. Rectal incontinence 60. Endometriosis and Adenomyosis. 61. Benign conditions and benign tumors. 62. Pruritis 63. Chronic Vulval Dystrophies 64. Tumors of Uterus 65. Ovarian Tumors 66. Genital Cancers 67. Menopause 68. Role of USG & Radiology in Gynae 69. Preoperative and postoperative management & complications of major Gynae surgery. 70. Gynaecological surgery 71. MTP 1st and 2nd Trimester 72. Contraceptions including Voluntary surgical contraception. 73. Demography

**4. Paediatrics:**

1. Basic sciences as applied to paediatrics 2. Growth and development. 3. Adolescence 4. Clinical biostatistics 5. Community paediatrics, including National Programmes. 6. Immunization 7. Nutritional requirements and nutritional disorders. 8. Infectious disease, including parasitic infestations 9. Infections- Respiratory, G.I, CNS, Genito-Urinary, Hematopoietic infections in neonates, infants, children and adolescents. 10. Systemic diseases. 11. Neonatology including antenatal paediatrics.

**5. Preventive and Social Medicine:**

1. History of Preventive and Social Medicine. 2. Concepts of Health and Diseases. 3. Nutrition and Health 4. Social Science and Health 5. Environment & Health 6. Occupational Health 7. Genetics and Health 8. Public Health Administration 9. Demography and Family Planning 10. Maternal and Child Health 11. Immunity and Immunization 12. Epidemiology of communicable and non-communicable diseases. 13. National Control/Eradication programmes relevant to specific diseases. 14. Health Information systems for the routine and vital health statistics 15. Primary Health care-Principles, components and levels of practice in the health care Blood infrastructure. 16. Health Education 17. International Health.

**6. Forensic Medicine & Toxicology:**

1. Medicolegal examination of injured person 2. Medicolegal examination of Rape victim 3. Medicolegal examination of Sodomy 4. Examination of accused of Rape 5. Medicolegal Examination of Intoxicated person 6. Procedure for conducting Medicolegal Post-mortem 7. Essential requirements for conduct of Medicolegal Post-mortem 8. Autopsy of Foetus 9. To calculate time since death on post-mortem 10. Examination of Skeletal remains 11. Technique of Viscera Preservation on post-mortem examination 12. Exhumation & Post-mortem 13. Medicolegal duties of Doctor in Poisoned Patients 14. Duties of a R.M.P 15. Procedure of recording Evidence 16. Recording of Firearm injuries 17. Forensic Science Laboratory 18. Post-mortem in case of Hanging and strangulation 19. Age Certification 20. Medical Jurisprudence 21. Forensic psychiatry 22. Thanatology 23. Deliriant poisons 24. Fire arm & bomb blast injury

**7. Anatomy:**

a. Cardiovascular system and lymphatic system-Blood supply of heart +lymphatic drainage of heart b. Thoracic outlet syndrome c. Abdominal quadrants d. Vermiform appendix-Positions of appendix e. Difference between male and female pelvis f. Layers of Scalp g. Triangles of neck, contents of anterior triangle h. Paranasal sinuses with applied anatomy i. Cartilages of larynx j. Names of Cranial Nerves k. Pharyngeal arches l. History of cardiac muscles m. Difference between thick and thin Skin n. Annual pancreas

**8. Physiology:**

Nerve Muscles a. Neuromuscular transmission b. Muscle proteins (Biochemistry) c. Excitation-Contraction coupling a. Anemia b. Hemostatis Respiratory System a. Mechanics of respiration-I b. Mechanics of respiration-II Cardiovascular System a. ECG b. Exercise physiology c. Cardiovascular reflexes d. Special features of circulation in skeletal muscles and skin Gastrointestinal System a. Introduction of G.I. Physiology: General organization of G.I. tract b. Pathophysiology of diarrheal disease. Nutrition a. Diet during pregnancy and lactation b. Diet during infancy and childhood Environmental Physiology a. Man in cold environment b. Man in hot environment Reproduction a. Introduction to reproductive system Kidney a. Renal Tubular function-I b. Renal tubular function-II c. Micturition General a. CSF b. Physiology of pain c. Brain stem reflexes, stretch reflexes and tendon reflexes d. Basal ganglia e. Speech f. Functional anatomy of eye g. Functional anatomy of ear: impedance matching h. Auditory pathway i. Olfaction j. Physiology of taste

**9. Biochemistry:**

a. Molecular Biology-its role in Clinical Biochemistry Structure, biochemical role of DNA and RNA, Genomes, Basic concepts of DNA & RNA metabolism Replication, Transcription and Translation-importance of their inhibitors, Recombinant DNA technology and polymerase chain reaction-their role in medicine, Gene therapy, Genomics and Bioinformatics, their relevance to medicine. b. Biochemical basis of Hormone action

Communication among cells and tissues, Molecular mechanism of action of Steroid hormones, hormones of pancreas, thyroid and parathyroid, Signal transduction, G-Proteins coupled receptors and second messengers, Role of leptins and adipocytokines. c. Clinical Biochemistry Organ function tests: Liver function tests, Kidney function tests, Thyroid function tests, Adrenal and Pancreatic function tests, Tumor markers and growth factors, Biochemical changes in pregnancy and lactation, Water and electrolytes balance and imbalance, Acid-base balance and disorders. Total Quality Management of Laboratories, Internal quality control, External quality control, Accreditation of laboratories.

**10. Microbiology:**

a. General Bacteriology i. Sterilization/disinfection ii. Culture media iii. Antimicrobial sensitivity iv. Bacterial genetics b. System Bacteriology i. Gram positive bacteria ii. Gram Negative bacteria iii. Mycobacteria c. Immunology i. Innate and Adaptive immune responses ii. Hypersensitivity iii. Autoimmunity d. Virology i. DNA/RNA viruses ii. HIV iii. Herpes viruses

**11. Pharmacology:**

i. General Pharmacology ii. Autonomic nervous system iii. Cardiovascular system iv. Central Nervous v. Antibiotics and chemotherapy

**12. ENT:**

1. Complications of Otitis media 2. Otosclerosis and tympanoplasty 3. BERA 4. Acoustic neuroma (tumors of ear) 5. FESS/ESS 6. Neurological affections of larynx 7. Hoarseness and tumors 8. Tracheostomy 9. Diseases and tumors of thyroid 10. ENT manifestation of AIDS

**13. Ophthalmology:**

1 Lids: I. Entropion II. Ectropion III. Ptosis 2. Cornea I. Corneal ulcer II. Keratoconus III. Lasik laser 3. Lens I. Senile cataract II. Subluxated lens III. Multifocal iol 4. Retina I. Diabetic Retinopathy II. Macular hole III. Retinal detachment 5. Optic nerve I. Optic atrophy II. Pappilledema III. Dilated pupil

**14. Radiology:**

I. Radiation Protection and hazards II. Basics of x-ray, ultrasound, CT and MRI III. Basics of PET & SPECT IV. Clinical indications/contraindications of CT, MRI and PET V. Contrast media and their adverse reactions and their management VI. Radiological investigations like IVP, HSG, Barium studies VII. Ultrasonography and Doppler.

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**Controller of Examination**



**EXAMINATION CENTRE**  
**Shalimar, Srinagar – 190025**

Syllabus for Conducting Written Test for **Junior Engineer (Civil)** Position  
 Question paper shall contain Total 100 questions and the candidates have to attend all the questions.

<b>Examination Type and Time Allotted</b>	<b>Name of the Subject</b>	<b>Distribution of (Total points 100)</b>
<b>Objective type 1 hour forty minutes (100 minutes)</b>	<b>Surveying</b>	<b>10</b>
	<b>Mechanics and Structural Analysis</b>	<b>10</b>
	<b>RCC Structures</b>	<b>20</b>
	<b>Soil Mechanics</b>	<b>10</b>
	<b>Fluid Mechanics and Hydraulics</b>	<b>10</b>
	<b>Irrigation Engineering</b>	<b>10</b>
	<b>Water supply and waste water Engineering</b>	<b>10</b>
	<b>Highway Engineering</b>	<b>10</b>
	<b>Construction planning management</b>	<b>10</b>

### **1.Surveying:**

Importance of surveying, principles and classifications, measurements of distance and directions, chain surveying, compass surveying, levelling, tachometry, theodolite, ETS, traversing, contouring, plane table surveying, curves.

### **2.Mechanics and Structural analysis:**

Introduction, Concept of rigid body scalar and vector quantities, Laws of force, moment, friction, Centre of gravity, simple machines, torsion, Properties of material, Bending moment and shear force in statically determinate beams. Simple stress and strain relationship. Stress and strain in two dimensions, principal stresses, stress transformation. Simple bending theory, flexural and shear

## **Annexure 2-Junior Engineer (Civil)**

stresses, unsymmetrical bending, shear Centre. Thin-walled pressure vessels, uniform torsion, buckling of column, combined and direct bending stresses. slope and deflection, Analysis of trusses

### **3. RCC Structures:**

Concrete technology, Ingredients of concrete, water cement ratio, workability properties of concrete, admixtures, special concretes, Non-destructive tests, basics of mix design. Concrete design-basic working stress and limit state design concepts, analysis of ultimate load capacity and design of members subjected to flexure, shear, compression and torsion by limit state methods. Basic elements of pre-stressed concrete, analysis of beam sections at transfer and service loads, one-way slab, two way slab.

### **4. Soil Mechanics:**

Origin of soils, properties, soil classification, three phase system, fundamental definitions, relationship and interrelationship, flow of water through soils, permeability & seepage, effective stress principle, deformation of soils, consolidation, compaction, shear strength characteristics, plate load test, SPT, Density control, Measurement of field density by core cutter and sand replacement method, soil exploration, bearing capacity and its methods

### **5. Fluid Mechanics and Hydraulics:**

Properties of fluids, hydrostatic pressure, measurement of pressure, flow measurements, flow through pipes, flow through open channels, hydraulic pumps, principle of conservation of mass, momentum, energy and corresponding equations, potential flow, applications of momentum and Bernoulli's equation, laminar and turbulent flow, flow in pipes, pipe networks. Concept of boundary layer and its growth. Uniform flow, critical flow and gradually varied flow in channels, specific energy concept, hydraulic jump Forces on immersed bodies, flow measurements in channels, tanks and pipes. Dimensional analysis and hydraulic modelling Kinematics of flow.

### **6. Irrigation Engineering:**

Introduction, water requirement of crops, hydrological cycle, Dams, Canals, dams, canal head works and regulatory works, cross drainage works, hydraulic structures, river training works, water-logging, drainage, ground water recharge, well hydraulics.

### **7. Water supply and waste water Engineering:**

Introduction, quantity of water, quality of water, water treatment, conveyance of water, laying out of pipes, building water supply, water supply fixtures and installation, plumbing, sewerage system, laying and construction of sewers, sewage characteristics, Methods of disposal, sewage treatment, building drainage, air and noise pollution

### **8. Highway Engineering:**

History of development of highway and planning, Definitions of various terms used in highway engineering., Methods of road construction, IRC classification, Highway surveys and plans Geometric design, Different types of road materials in use, Binders, Types of pavement, CBR

**Annexure 2-Junior Engineer (Civil)**

method, sub grade preparation, WBM, WMM, Bituminous Macadam, dense bituminous macadam, special problems in hill road.

**9. Construction planning management:**

Network diagrams, PERT-CPM, cost optimization contracts, tenders, depreciation, valuation, organization, measurement books, cash book, functions of management, construction planning, quality control, inventory control, Estimation and costing definitions, methods of estimation and type of estimates.

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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.

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

**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.

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**Controller of Examinations**



**EXAMINATION CENTRE**  
**Shalimar, Srinagar – 190025**

Syllabus for Conducting Written Test for the post of **Draftsman**.  
Question paper shall contain Total 100 questions and the candidates have to attend all the questions.

<b>Examination Type and Time Allotted</b>	<b>Name of the Subject</b>	<b>Distribution of (Total points 100)</b>
<b>Objective type 1 hour forty minutes (100 minutes)</b>	Surveying	15
	Mechanics and Structural Analysis	15
	Soil engineering/Fluid Mechanics and Hydraulics	10
	Constructional Planning Management	15
	Water supply and waste water Engineering	15
	Environmental Legislations in India	10
	Irrigation Engineering	10
	Engineering Drawing	10

**Surveying:**

Importance of surveying, principles and classifications, measurements of distance and directions, chain surveying, compass surveying, levelling, tacheometry, theodolite, traversing, contouring, plane table surveying, curves.

**Mechanics and Structural Analysis:**

Introduction, concept of rigid body scalar and vector quantities, laws of forces, moment, friction, centre of gravity, simple machines, torsion, properties of material, bending moment and shear force in statically determinate beams. Simple stress and strain relationship. Stress and strain in two dimensions principles stresses, stress transformations. Simple bending theory, flexural and shear stresses, unsymmetrical bending, shear centre. Thin-walled pressure

vessels, uniform torsion, buckling of column, combined and direct bending stresses. Slope and deflection, analysis of trusses.

Modern Tools and Technologies.

GIS/RS applications in survey.

**Soil engineering/Fluid Mechanics and Hydraulics:**

Origin of soils. Properties soil classification, definitions, relationship and interrelationship, flow of water through soils, permeability and seepage, effective stress principle.

Properties of fluids, hydrostatic pressure, measurement of pressure, flow measurements, flow through pipes, flow through open channels, hydraulic pumps, principle of conservation of mass, momentum, energy and corresponding equations, potential flow, applications of momentum and Bernoulli's equation.

**Constructional Planning Management:**

Network diagrams, PERT-CPM, cost optimization contracts, tenders, depreciation, valuation, organization, measurement books, cash book, functions of management, construction planning, quality control, inventory control, Estimation and costing definitions, Methods of estimation and type of estimates.

Programme such as CAD

**Water supply and waste water Engineering:**

Introduction, quantity of water, quality of water, water treatment, conveyance of water, laying out of pipes, building water supply, water supply fixtures and installation, plumbing, sewerage system, laying and construction of sewers, sewage characteristics, Methods of disposal, sewage treatment, building drainage, air and noise pollution.

Types of pumps required for pumping sewerage such as centrifugal pumps, reciprocating pumps, diaphragm pumps and pneumatic ejectors: Pumping station – their locations and component parts.

**Environmental Legislations in India:**

Environment (Protection) Act 1986, its amendments, and various rules/ notifications made their in. Environmental impact Assessment notification, 2006 salient features.

Water (Preventions and control of pollution) Act, 1974, Air (Prevention & Control of Pollution) Act 1981.

**Irrigation Engineering:**

Introduction, water requirement of crops, hydrological cycle, Dams, Canals, dams, canal head works and regulatory works, cross drainage works, hydraulic structures, river training works, water logging, drainage ground water recharge, well hydraulics.

**Engineering Drawing:**

Basic of Engineering drawing, Basic concepts of CAD/CAM, Engineering drawing softwares.

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**EXAMINATION CENTRE**

**Shalimar, Srinagar-190025**

Syllabus for Conducting Written Test for Stenographer position. Question paper shall contain Total 100 questions and the candidates have to attend all the questions.

Examination Type	Name of the Subject	Distribution of Marks (Total points 100)
<b>Written test (objective type)</b>	<b>General Awareness with special reference of J&amp;K UT</b>	<b>25</b>
	<b>General English &amp; Comprehension</b>	<b>30</b>
	<b>General Intelligence &amp; Reasoning</b>	<b>20</b>
	<b>Computer Applications</b>	<b>25</b>
<b>Time allowed : 100 minutes</b>		

**1. GENERAL AWARENESS with special reference of J&K UT.** (i) Current Events of National and International importance (ii) Political & Physical divisions of India (iii) Indian Culture, Heritage and Freedom Struggle/Movement. (iv) Transport and communication v) Demography- Census, its feature and functions. (vi) Important Rivers & Lakes in India. (vii) Weather, Climate, Crops, Means of Transport of India. (viii) Ecology, Environment and Biodiversity ix) Sports x) Science & Technology xi) e-Governance 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 ix) 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 xvii) Cloze test xviii) vocabulary.

**3. GENERAL INTELLIGENCE & REASONING** (i) Number series, Letter series, Semantic Series, Speed, Distance and Time, Statements and conclusions, Logical Reasoning, Mental Reasoning, 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.

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EXAMINATION CENTRE  
Shalimar, Srinagar – 190025

Syllabus for Conducting Written Test for Livestock/ Veterinary Assistant (LSA) 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	Basis Mathematics	25
	Basic Reasoning	25
	Basic English	25
1 hour forty minutes (100 minutes)	General Awareness and Science	25

**Basic Mathematics:** Percentage, Average, Time, Work and Distance, Ratio and Proportions, Problem of Age, Probability, LCM, HCF, Mensuration

**Basic Reasoning:** Analogies, Relationship concepts, Figure odd one out, Direct Sense, Figure Series completion, Venn Diagram, Number series, Coding/Decoding

**Basic English:** Articles, Synonyms, Antonyms, Preposition, Verbs, Reading comprehension, Determiners, Spellings, Sentences

**General Awareness and Science:** General current events (National Level), Sports, India culture, Indian history, Indian geography, Capital/State, General Science, Health, Hygiene and Sanitation, Geography of Jammu and Kashmir, Culture of Jammu and Kashmir, History of Jammu and Kashmir.

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**EXAMINATION CENTRE**  
**Shalimar, Srinagar – 190025**

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

<b>Examination Type and Time Allotted</b>	<b>Name of the Subject</b>	<b>Distribution of (Total points 100)</b>
<b>Objective type 1 hour forty minutes (100 minutes)</b>	<b>General English</b>	<b>20</b>
	<b>General Awareness/ Mental Ability Test</b>	<b>20</b>
	<b>General Science</b>	<b>20</b>
	<b>Mathematics</b>	<b>20</b>
	<b>Computer Applications</b>	<b>20</b>

**GENERAL ENGLISH** (i) Paragraph writing / Comprehension (ii) Editing / Proof Reading. (iii) Rearranging of jumbled sentences (iv) Dialogue (v) Narration (vi) Models (vii) Articles (viii) Paragraph writing with blanks to be filled in with the following i. Phrases ii. Pronouns iii. Homonyms/Homophones etc. (ix) Clauses (x) Punctuation (xi) Synonyms and antonyms (xii) Pairs of words and their use in meaningful sentences. (xiii) Idioms and phrases. (xiv) Uses of Prepositions

**GENERAL AWARENESS/ MENTAL ABILITY TEST** (i) Current events of National Importance. (ii) GDP, GNP, Per capita Income etc (iii) Weather, Climate, Crops, Means of Transport. (iv) History, Geography, Economy and Culture of J&K UT (v) Flora and Fauna of J&K UT (vi) Rivers and Lakes J&K UT. (vii) J&K Reorganisation Act, 2019 (viii) Popular names of personalities (Religion, Politics, Scientific Discoveries, Geographical, Sports, History) (ix) National Awards- in science, literature, sports (x) Democratic institutions, Forms of Government.

**MENTAL ABILITY TEST** (i) Number series (ii) Letter series (iii) Coding decoding (iv) Direction sense (v) Blood relations (vi) Mathematical reasoning (vii) Speed, Distance and Time (viii) Statements and conclusions.

**GENERAL SCIENCE** (i) Gravitation / Heat / Light / Matter / Acids / Salts / Elements / Cells. (ii) Various sources of energy; conventional sources of energy; improvement in technology for using conventional source of energy (Biomass and wind energy) (iii) Non-conventional sources of energy (Solar energy, Energy from sea). (iv) Physical properties of metals and non-metals. (v) Chemical properties of metals like action of water, air, acids, salts;



Reactivity series of metals. (vi) Occurance of metals; their extraction, enrichment of ores. Extraction of metals in accordance with activity series; refining of metals. (vii) Life processes: Nutrition and its types, Respiration, Transportation of water, food and minerals in plants, Excretion with reference to plants and animals. (viii) Environmental pollution. (ix) Ecosystem – Its components, Food chains and Food webs. (x) Ozone layer, its depletion, Green House Effect. (xi) Mendal’s contribution and experiments on pea plant. (xii) Types of reproduction in Plants and Animals. (xiii) Classification of Plants and Animals.

**MATHEMATICS**

(i) Sets and their representations, finite and infinite sets, empty sets, subsets, subset of real numbers, Venn diagram, Union and Intersection of sets (ii) Statistics: Measures of central tendency, measure of dispersion, parametric tests.(iii) Profit and loss (iv) Simple / Compound interest. (v) Linear equations with two variables. (vi)Progression / BODMAS (vii) Probability: Simple problems on Single event.

**COMPUTER APPLICATIONS** (i) Fundamentals of computer sciences (ii) Hardware & Software (iii) Input and output devices (iv) Operating system (v) M.S Word, M.S Excel, M.S Access and Power point Presentation (vi) E-mail & Internet

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Sd/-

**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.

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

**1. GENERAL AWARENESS WITH SPECIAL REFERENCE OF J&K UT** (i) Current Events of National and International importance (i) Political & Physical divisions of India (ii) Indian Culture, Heritage and Freedom Struggle/Movement. (iii) Demography- Census, its feature and functions. (iv) Important Rivers & Lakes in India. (v) Weather, Climate, Crops, Means of Transport of India. (vi) J&K UT a) History b) Economy c) Geography- (Weather, Climate, Crops, Rivers, Lakes, Flora, Fauna etc.) d) Heritage & Culture e) Important Tourist Destinations.

**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

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**Controller of Examinations**



Syllabus for conducting written Test for Electrician Position.  
Question paper shall contain Total 100 questions and the  
candidates have to attend all the questions.

**Total Questions:-100**

Examination Type	Name of the Subject	Marks
Written Test (Objective Type)	General Knowledge	20
	General English	20
	Arithmetical & Numerical Ability	20
	Trade (Electrician)	40

**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, Chemical effects of electric current, Different types of lead acid cells, Care and maintenance of Cells, Inverter, Battery Charger, UPS-Principle of working, Allied Trades-Marking use of chisels and hacksaw on flats, sheet metal filling practice, filling true to line, 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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