

GOVERNMENT OF JAMMU AND KASHMIR
JAMMU AND KASHMIR SERVICES SELECTION BOARD (JKSSB)

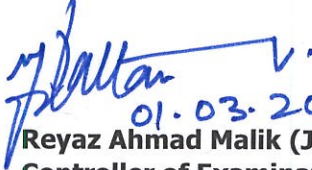
Hema Complex, Sector -3, ChanniHimmat, Jammu / Zamzam Complex Rambagh, Srinagar.

www.jkssb.nic.in

Subject: Advance Notice for Conduct of Written Examinations / Computer Based Written Test (CBT) 2023 for various posts.

In continuation to the Advance Notice issued vide No. JKSSB-COE0EXAM/10/2022-04 (CC-7055504) dated 06.01.2023, it is hereby notified for the information of candidates that the Jammu and Kashmir Services Selection Board (JKSSB) is going to conduct Computer Based Written Test (CBT) for various posts, tentatively, as per the details given in **Annexure "A"** to this Notice. The schedule for downloading of Admit Cards shall be notified separately and the Admit cards shall be made available on the official website of JKSSB (www.jkssb.nic.in) 07 days before the date of examination.

The syllabi for the examination to these posts are annexed herewith as **Annexure "B" to Annexure "E"**.


01.03.2023
Reyaz Ahmad Malik (JKAS)
Controller of Examinations
J&K Services Selection Board
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No. JKSSB-COE0EXAM/10/2022-04 (CC-7055504)

Dated: 01-03-2023

Copy to the:

1. Commissioner/Secretary to the Government, General Administration Department, Civil Secretariat, Jammu.
2. Director Information & Public Relations, J&K Government with the request to get the said notification published in at least three leading local newspaper of Jammu/Srinagar for three consecutive days.
3. Member(s) ALL, J&K Services Selection Board.
4. Secretary, J&K Services Selection Board.
5. Administrative Officer, Services Selection Board, Jammu/Srinagar.
6. P.A. to Chairman, J&K Services Selection Board.
7. In-charge Website, Services Selection Board, Jammu.
8. Office record.

| Annexure "A" | | | | | | | |
|-------------------|----------|---|--|-------------------|---------------|--------------------------|--------------------|
| Advertisement No. | Item No. | Department | Name of the post | Cadre of the post | Nos. of posts | Date of Exam | Syllabi annexed as |
| 04 of 2020 | 106 | Finance (DG Accounts & Treasuries) | Account Assistant | UT | 972 | 16.03.2023 to 01.04.2023 | "B" |
| 06 of 2022 | 202 | Public Works (R&B) Department | Junior Engineer (Mechanical) | UT | 190 | 01.04.2023 to 04.04.2023 | "C" |
| 06 of 2022 | 201 | Public Works (R&B) Department | Junior Engineer (Civil) | UT | 855 | | "D" |
| 01 of 2022 | 001 | (DMRRR) Animal & Sheep Husbandry Department | Junior Assistant | Div. Kashmir | 5 | 04.04.2023 to 05.04.2023 | "E" |
| 01 of 2022 | 002 | (DMRRR) Animal & Sheep Husbandry Department | | Anantnag | 3 | | "E" |
| 01 of 2022 | 003 | (DMRRR) Animal & Sheep Husbandry Department | | Kulgam | 3 | | "E" |
| 01 of 2022 | 004 | (DMRRR) Animal & Sheep Husbandry Department | | Kupwara | 3 | | "E" |
| 01 of 2022 | 005 | (DMRRR) Animal & Sheep Husbandry Department | | Pulwama | 3 | | "E" |
| 01 of 2022 | 006 | (DMRRR) Animal & Sheep Husbandry Department | | Srinagar | 3 | | "E" |
| 01 of 2022 | 007 | (DMRRR) School Education | | Ganderbal | 6 | | "E" |
| 01 of 2022 | 008 | (DMRRR) School Education | | Bandipora | 8 | | "E" |
| 01 of 2022 | 009 | (DMRRR) Industries & Commerce | | Anantnag | 8 | | "E" |
| 01 of 2022 | 010 | (DMRRR) Industries & Commerce | Bandipora | 6 | "E" | | |
| 01 of 2022 | 011 | (DMRRR) Industries & Commerce | Baramulla | 2 | "E" | | |
| 01 of 2022 | 012 | (DMRRR) Industries & Commerce | Ganderbal | 8 | "E" | | |
| 01 of 2022 | 013 | (DMRRR) Industries & Commerce | Junior Assistant - cum - Computer Operator | Kulgam | 8 | "E" | |
| 01 of 2022 | 014 | (DMRRR) Industries & Commerce | Kupwara | 8 | "E" | | |
| 01 of 2022 | 015 | (DMRRR) Industries & Commerce | Pulwama | 4 | "E" | | |
| 01 of 2022 | 016 | (DMRRR) Rural Development Department | Baramulla | 6 | "E" | | |
| 01 of 2022 | 017 | (DMRRR) Rural Development Department | Kupwara | 5 | "E" | | |


 01.03.2023
 Reyaz Ahmad Malik (JKAS)
 Controller of Examinations
 J&K Services Selection Board
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ANNEXURE-B

Subject: Syllabus for Written test (Objective Type) for the post of Accounts Assistant (Finance).

Marks: 120

Time: 02:00 Hours

General Knowledge with special reference to J&K UT **30 Marks**

- (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
- (x) J&K Reorganisation Act, 2019.

Accountancy and Book Keeping

30 Marks

- (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) Partnership Accounts.
- (vii) Ledger Accounts.
- (viii) Cash Book, Financial Audit.
- (ix) Elements of Double entry Book Keeping.
- (x) Trial Balance.
- (xi) Trading Account.
- (xii) Profit Loss Account and Balance Sheet.
- (xiii) Concept of Social Accounting, Social Audit and cash based single entry system of accounting.
- (xiv) Public Financial Management System (PFMS).
- (xv) Indian Financial Management System.
- (xvi) Taxation, Tax Laws- Direct , Indirect
- (xvii) Cost Management-Budgetary control
- (xviii) Cost Accounting
- (xix) Developments in Accounting

- (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.
- (vii) Clauses
- (viii) Synonyms and antonyms
- (ix) Pairs of words and their use in meaningful sentences.
- (x) Idioms and phrases.
- (xi) Uses of Prepositions.
- (xii) Active & Passive Voice

Statistics**10 Marks**

- (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) Theory of Probability
- (vii) Theory of Attributes- Basic concepts and their applications.
- (viii) Theory of Index Numbers: Tests of Index numbers- Wholesale and consumer price Index numbers.
- (ix) Demography-Census, its features and functions.
- (x) Vital Statistics- Measures of fertility, Crude fertility rates, specific fertility rates, gross and net reproduction rates., Measures of Mortality

Mathematics**10 Marks**

- (i) Simple / Compound interest.
- (ii) Linear equations with two variables.
- (iii) Permutations/ Combinations & Binomial Theorem.
- (iv) Limits & Derivatives.
- (v) Set Theory- Basic Concepts and Applications.
- (vi) Relations and Functions
- (vii) Matrices & Determinants
- (viii) Probability
- (ix) Coordinate & Three dimensional Geometry
- (x) Vectors.

General Economics**10 Marks**

- (i) Introduction of Economics- Basic concept and Principles.
- (ii) Fiscal & Monetary Policy- Meaning, Scope and Methodology.
- (iii) Theory of consumers demand using indifference curve technique.
- (iv) Demand Analysis
- (v) Factor Pricing –Marginal productivity Theory & Ricardian Theory of Rent

- (vi) Pricing under various forms of Market.
- (vii) Factors of production & Laws of Production.
- (viii) Concept of Economic Growth and its measurement
- (ix) Characteristics and problems of developing economy
- (x) Planning vs Market Economy.
- (xi) Economic Reforms in India
- (xii) Concept & Measurement of National Income.
- (xiii) Role of RBI

General Science

10 Marks

- (i) Newtons Laws of Motion, Mass, Weight, Acceleration, Velocity, Speed etc
- (ii) Electric Current, Power, Energy, Voltage.
- (iii) Chemical Equation, types.
- (iv) Metals, Non-metals- Physical & Chemical properties.
- (v) Various sources of energy; Conventional sources of energy; Biomass and wind energy. Non-conventional sources of energy (Solar energy, Tidal energy).
- (vi) Nutrition and its types, Respiration, Transportation of water, food and minerals in plants.
- (vii) Communicable & Non-Communicable Diseases.
- (viii) Vitamins- Diseases related to vitamin deficiency.
- (ix) Ecosystem – Its components, Food chains and Food webs.
- (x) Environmental pollution. Ozone layer, its depletion, Green House Effect.

Knowledge of Computers

10 Marks

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

ANNEXURE-C

Syllabus for Written test

Marks =120

120 Minutes

Theory of Machines and Machine Design: 15 Marks

Four bar linkage and link motion, Flywheels and fluctuation of energy, Power transmission by belts-V-belts and Flat belts. Gears-Type of gears, gear profile and gear ratio calculation. Cams. Governors-Principles and classification. Design of keys, shafts, Riveted joint, couplings.

Engineering Mechanics and Strength of Materials: 15 Marks

Laws of forces, Equilibrium of Forces, Moment of Inertia, Laws of motion. Friction. Concept of simple machines, M A, V R, %age. Concepts of stress and strain, Elastic limit and elastic constants. Bending moments and shear force diagram. Stress in composite bars. Torsion in circular shafts. Columns: Euler's and Rankine's theories. Thin-walled pressure vessels.

Thermal Engineering and Refrigeration & Air-conditioning: 20 Marks

Thermodynamics: Heat, work and temperature, First and second laws of thermodynamics. Carnot, Rankine, Otto and Diesel Cycles. P-v & P-T diagrams H₂O. Saturated, wet & superheated steam. Definition of dryness fraction of steam, degree of superheat of steam. Rankine cycle of steam: Simple Rankine cycle, plot on P-V, T-S, h-s planes, Rankine cycle efficiency with & without pump work. Concept of COP, Carnot Cycle, Vapour compression cycle. Refrigerants. Psychometry, DBT, WBT, DPT.

Fluid Mechanics & Machinery: 15 Marks

Properties & Classification of Fluids, Newton's law of viscosity, Fluid Statics, Measurement of Fluid Pressure by Manometers, U-tube, Inclined tube. Fluid Kinematics: Stream line, laminar & turbulent flow, external & internal flow, continuity equation. Dynamics of ideal fluids: Bernoulli's equation, Total head; Velocity head; Pressure head. Measurement of Flow rate, Basic Principles & working of Venturi meter, Pitot tube, Orifice meter. Hydraulic Turbines & Centrifugal Pumps

Material Science & Production Engineering: 20 Marks

Structure of metals, Space lattice, Unit cell, BCC, FCC etc. Iron carbon diagram, Classification of Steels: mild steel & alloy steel. Heat treatment of steel. Welding

– Arc Welding, Gas Welding, Resistance Welding, Special Welding Techniques i.e. TIG, MIG. Brazing & Soldering, Welding Defects & Testing. Foundry & Casting methods, defects, different casting processes. Forging, Extrusion etc. Metal cutting principles, cutting tools. Basic Principles of machining with Lathe, Milling, Drilling, Shaping, Grinding. Machine tools & manufacturing processes.

Metrology and Automobile Engineering: **15 Marks**

Tools used in Linear Measurements, Angular Measurement, Surface finish. Limits, fits & Tolerance, Error, Classification of Automobiles. Transmission, Steering, Braking, Suspension system. IC Engine Performance, IC Engine Combustion process, Cooling and Lubrication system in I.C Engine

Industrial Management and CAD/CAM: **20 Marks**

Planning, Organizing, Leading, Controlling. Inventory Control, Inspection & Quality Control. Basic concepts of CAD/CAM. NC, DNC, CNC machines.

ANNEXURE-D

Syllabus for Written test

Marks =120

120 Minutes

1. Surveying: **10 Marks**

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

2. Mechanics and Structural analysis: **15 Marks**

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 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: **15 Marks**

Concrete technology, Ingredients of concrete, water cement ratio, workability properties of concrete, admixtures, special concretes, Nondestructive 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: **10 Marks**

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: **15 Marks**

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 modeling Kinematics of flow.

6. Irrigation Engineering: 10 Marks

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: 10 Marks

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: 10 Marks

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

9. Railway Engineering: 10 Marks

History of Indian railways, Gauges used, permanent way its components, Types of rails, creep, welding, Rail fixtures and fastenings, Signaling, Points and Crossings, Bridge terminology, classification, components, foundations.

10. Construction planning management: 15 Marks

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.

ANNEXURE-E

Syllabus for Written test (Objective Type)

Marks: 80

Time: 80 Minutes

Unit I General English

20 Marks

- (i) Comprehension
- (ii) Editing / Proof Reading.
- (iii) Rearranging of jumbled sentences
- (iv) Narration
- (v) Modals
- (vi) Articles
- (vii) Paragraph writing with blanks to be filled in with the following
 - i. Phrases
 - ii. Pronouns
 - iii. Homonyms/Homophones etc.
- (viii) Clauses
- (ix) Punctuation
- (x) Synonyms and antonyms
- (xi) Idioms and phrases.
- (xii) Uses of Prepositions
- (xiii) Active & Passive Voice

Unit II General Awareness with special reference to JK UT 20 Marks

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

Unit III Numerical and Reasoning Ability

20 Marks

Basic Arithmetic:

- (i) Number System
- (ii) Percentage

- (iii) Average
- (iv) Profit & Loss
- (v) Ratio & Proportion
- (vi) Time & Work

Reasoning:

- (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.

Unit IV Basic Concepts of Computers 20 Marks

- (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 Powerpoint Presentation
- (vi) E_mail & Internet