



Government of Jammu and Kashmir
Services Selection Board
Sehkari Bhawan, Rail Head Complex, Jammu
(www.jkssb.nic.in)
NOTICE

Subject:-Syllabus and Tentative schedule of written test for various posts notified vide Advertisements no 03/2017/01 to 03/2017/20 dated 17-11-2017 (Various Department)

1. The syllabi for the posts notified vide advertisement Nos. 03/2017/01 to 03/2017/20 dated 17-11-2017 (Various Departments) is annexed herewith for the information of the candidates.
2. The exam may be OMR based or CBT.
3. Actual dates of the test and issuance of admit cards will be notified later.
4. The Criteria of the selection already stands notified in the advertisements.

(Dr. Rehana Akhtar Bijli) KAS
I/C Secretary,
J&K Services Selection Board,
Jammu

No. SSB/Secy/Sel/2017/19933-37

Dated: 06.12.2017

Copy to the:-

1. Director Information, J&K Government, Jammu with the request to get the said notification published in at least three leading local newspaper of Jammu/Srinagar on three consecutive dates.
2. AO, Jammu/Srinagar for information and na.
3. Private Secretary to the Ld. Chairman for information of the Chairman.
4. I/c Web site.
5. Stock file.

S. No.	Advertisement No.	Name of the Department	<u>Name of the post</u>	Cadre	Syllabus Annexed
1.	03/2017/01	Deptt of Food, Civil Supplies and Consumer Affairs	Assistant Storekeeper-cum-Clerk	Div Cadre Kashmir	Annexure "A"
2.	03/2017/02	Deptt of Food, Civil Supplies and Consumer Affairs	Junior Assistant	Div Cadre Jammu	Annexure "B"
3.	03/2017/03	Information Department	Information Assistant	State	Annexure "A"
4.	03/2017/04	Information Department	Videographer	State	Annexure "A"
5.	03/2017/05	Information Department	Library Assistant	State	Annexure "C"
6.	03/2017/06	Information Department	Library Assistant	Div Cadre Kashmir	Annexure "C"
7.	03/2017/07	Information Department	Library Assistant	Div Cadre Jammu	Annexure "C"
8.	03/2017/08	H&ME	Junior Health Inspector (Computer)	Anantnag	Annexure "D"
9.	03/2017/09	H&ME	Driver	Kulgam	Annexure "D"
10.	03/2017/10	Higher Education Deptt	Junior Laboratory Assistant	Div Cadre Jammu	Annexure "A"
11.	03/2017/11	Higher Education Deptt	Library/RR Assistant	Div Cadre Jammu	Annexure "C"
12.	03/2017/12	Higher Education Deptt	Mistry	Div Cadre Jammu	Annexure "D"
13.	03/2017/13	Higher Education Deptt	Mistry	Div Cadre Kashmir	Annexure "D"
14.	03/2017/14	Higher Education Deptt	Steno Instructor	Div Cadre Kashmir	Annexure "B"
15.	03/2017/15	Transport Department	Fitter	State	Annexure "D"
16.	03/2017/16	Animal/Sheep Husbandry Department	Fisheries Development Assistant	Div Cadre Kashmir	Annexure "E"
17.	03/2017/17	Animal/Sheep Husbandry Department	Fisheries Development Assistant	Div Cadre Jammu	Annexure "E"
18.	03/2017/18	Industries & Commerce Department	Assistant Jobber	Srinagar	Annexure "D"
19.	03/2017/19	ARI & Training Deptt	Assistant Operator	Div Cadre Kashmir	Annexure "D"
20.	03/2017/20	ARI & Training Deptt	Re-Toucher Artist	Div Cadre Kashmir	Annexure "D"

Annexure "A"
Syllabus
GRADUATION LEVEL POSTS

Time: 02.00Hrs.

Marks: 120

Unit-I GENERAL ENGLISH

20 Marks

- (I) Tenses
- (II) Rearranging of jumbled sentences.
- (III) Narration
- (IV) Models
- (V) Articles
- (VI) Comprehension with blanks to be filled in with
Phrases, Pronouns, 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.

Unit-II GENERAL KNOWLEDGE AND CURRENT AFFAIRS

20 Marks

- Important dates in Indian History / Freedom struggle, different dates and events.
- First in world (Adventure, Sports, Discoveries).
First in India (Adventure, Sports, Discoveries).
- Popular names of Personalities (Religion, Politics, Scientific discoveries, Geographical, Sports, History)
- The Newspaper world – (Current Dailies & Weeklies of India).
- Books & Authors – General
- Languages.
- Capitals & Currencies.
- United Nations Organisations – Veto Powers
No. of Countries as its Members.
Principal organs and their functions.
- SAARC, ASEAN.
- Everyday Science
- World famous Awards - (1. in Science)
(2. in Literature)
(3. in Sports)
- National Awards - (1. in Science)
(2. in Literature)
(3. in Sports)
- The world of Sports
- Climate & Crops in India.
- Democratic institutions
- Forms of Government

- Political & Physical divisions of world & India
- Important rivers & Lakes in India.
- Current Events of National and International Level.
- Role of Mathematics in Economics.
- Agriculture in economic development; Industrialization and economic development.
- Indian Foreign Trade
- New economic reforms and growth of foreign trade.
- Inflation – Concept and types; Causes and consequences

UNIT-III GENERAL KNOWLEDGE WITH SPECIAL REFERENCE TO J&K

20 Marks

- (I) Abbreviations, Important dates, popular names of personalities and their achievements/
Contribution (National and International).
- (II) Constitution of J&K – Formation, Fundamental rights, Directive Principles.
- (III) Weather, Climate, Crops, Means of Transport.
- (IV) Important power projects and their impact on State Economy.
- (V) Rivers and Lakes.
- (VI) Important Tourist Destinations.
- (VII) History of J&K State.
- (VIII) Historical places of the State and their importance.
- (IX) RTI Act.
- (X) Indus Water Treaty and its impact on State economy.

Unit-VI GENERAL SCIENCE

20 Marks

- (i) Various sources of energy; conventional sources of energy; improvement in technology for using conventional source of energy (Biomass and wind energy)
- (ii) Non-conventional sources of energy (Solar energy, Tidal energy).
- (iii) Mechanics, Rest, motion, Velocities, acceleration, Newton Laws of motion,
- (iv) Voltage, Current, Resistance, Power, D.C Batteries
- (v) Waves, light as a wave, Sound waves, Transverse and longitudinal waves.
- (vi) Structure of Atom
- (vii) Solids, Liquids and Gases(Basics)
- (viii) Life processes: Nutrition and its types, Respiration, Transportation of water, food and minerals in plants.
- (ix) Vitamins- Diseases related to vitamin deficiency.
- (x) Environmental pollution.
- (xi) Ecosystem – Its components, Food chains and Food webs.
- (xii) Ozone layer, its depletion, Green House Effect.
- (xiii) Importance of water in life

Unit-V MENTAL ABILITY TEST

20 Marks

- (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.
- (IX) Logical Reasoning.
- (X) Mental Reasoning.

Unit-VII Computer Applications

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

ANNEXURE “B”
Jammu & Kashmir Services Selection Board
Post: Junior Assistant
Multiple Choice Based Written test
Reference Guidelines and Syllabus
40 Marks/40 Minutes

A) English/General Awareness: 20 Marks

The English paper will check the context dependent comprehension.

This will be done using comprehension passages and will focus on the following;

- Grammar** :Grammatical knowledge will be tested with focus on Articles, Verbs, Tenses, repositions, Voice, Synonyms, Antonyms, and Punctuation etc. **(10 marks)**
- Factual** : Passage will be about the local history, art and popular culture; aspirants will be tested on factual understanding of events, dates, people, idioms and phrases, etc. **(5 marks)**
- Job Related (Context)** : Candidates will be tested on types of communication; formal and non-formal, verbal and non-verbal, proof reading, interpreting guidelines, circulars, data and other work related issues etc. **(5 marks)**

B) Numerical and Reasoning Ability 10 Marks

The candidates will be tested primarily on the fundamental mathematical concepts and application oriented reasoning. The broad areas will include the following;

- Basic Arithmetic** ;Number System, Percentage, Average, Profit & Loss, Ratio & Proportion, Time & Work etc
- Reasoning** ; Number & Letter Series, Coding-Decoding, Analogy etc

C) Basic Concepts of Computers 10 Marks

The candidates' understanding of the concepts of computers and its application will be tested and it will broadly cover the following;

- Computer terminology
- Hardware and Software
- Storage and Operating systems
- Safety and Security
- E-mail and Internet Usage

ANNEXURE “C”
Jammu & Kashmir Services Selection Board
Jr. Librarian / Library Assistant
Multiple Choice Based Written test
Reference Guidelines and Syllabus
120 Marks/120 Minutes

Unit-I

Marks 20

- Types of Libraries and their Features
- Role of Libraries in contemporary Society
- Five Laws of Library Sciences
- Library legislation in different states of India
- Intellectual Property Rights(IPR)
- National and International Library Associations: ILA, IASLIC, IATLIS, SIS IFLA, FID ALA, ASLIB SLA etc.
- National and intercalation Agencies : UNESCO, OCLC, PRRLF, UGC,
- INFLIBNET, DELNET ,etc
- Information Centers, DRTC, ISI, INSDOC(NISCAIR),NASSDOC, DESIDOC, SENDOC, etc

Unit-II

Marks 20

- Basic Terminology: call Number, Class Number, Book Number, Isolates
- Classification; concept, purpose and species
- Features of DDC, UDC, and CC
- Five Fundamental Categories
- Notation: Definition and Purpose
- Library Catalogue; Definition and purpose
- OPAC AND WebOPAC
- Cannons of Classification and Cataloguing

Unit-II

Marks 20

- Principles of Book Selection
- Selection Tool; Print and Non-Print Materials
- Processing of Documents; Accessioning, Classification, Cataloguing labeling and shelving
- Serials/ Journals; Selection and procurement
- Book Transaction System: Traditional and Modern
- Stock verification of Books; Methods and Tools
- Weeding Process

Unit-IV

Marks 20

- Information Sources: Print and No- Print ; Primary, Secondary and Tertiary Sources
- Types of Dictionaries, Encyclopedias
- Geographical and Biographical Sources
- Indexing and Abstracting Sources
- Types of Bibliographies
- Bibliographies Sources

Unit-V

Marks 20

- Types of Reference service ,Ready reference service, Long Rang Reference Service
- Reference Librarian: Role Skills and Competences

- User Education/ Information Literacy Skills
- CAS/SDI
- International Information System;
INIS, AGRIS, MEDLARS/MEDLINE, INSPEC
- Information Seeking Pattern

Unit-VI

Marks 20

- Computer Genesis
- Computer Generations
- Primary and Secondary Memory; Storage Devices
- Operating System: MS DOS, Windows, Linux
- Programming; Algorithm, Flowcharts, Languages
- MS-WORD , MS-Excel –Ms-Power point, DBMS,CDS/ISIS, WINISIS

Annexure "D"
"Matric Level"

Marks: -120

Time: -2:00 Hours

Syllabus for Written test (Objective Type) for the post of

Section I

English. (17 Marks)

Unseen Passage, Phrases, Pronouns, Homonyms/ homophones, Tenses, Clauses, Punctuation, Articles. Basic understanding of English Language, Essay and letter writing
(17 Marks)

Section-II

Mathematics (28 Marks)

Unit 1

Algebra

Pair of Linear Equation in two variables, Algebraic conditions for number of solutions. Simple situational problems may be included, simple problems on equations reducible to linear equation may be included. (03 Marks)

Unit II

Polynomials and Quadratic equation

Zeros of a Polynomial, Relationship between Zeros and coefficients of polynomial with particular reference to quadratic polynomials. Statement and simple problems on division algorithm for polynomials with real coefficients. Standard form of Quadratic equation $ax^2+bx+c=0$, ($a \neq 0$), problems related to day to day activities to be incorporated. (05 Marks)

Unit III

Trigonometry

Trigonometric ratios of an acute angle of a right angled. Relationship between the ratios. Trigonometric identities. Applications of the identity $\sin^2 A + \cos^2 A = 1$, Trigonometric ratios of complementary angles. Simple and believable problems on heights and distances. Angle of elevation/depression should be only 30, 45, 60.

(04 Marks)

Unit IV Mensuration

Problems on finding surface areas and volumes of combination of any two of the following cubes, cuboids, spheres, hemispheres and right circular Cylinders/cones.Frustum of a cone.Problems involving converting one type of metallic solid into another and other mixed problems. (08 Marks)

Unit V Probability

Repeated experiments and observed frequency approach to probability. Focus is on empirical probability. Classical definition of probability.Simple problems on single even, not using set rotation. (08 Marks)

Section III Physics (20 Marks)

Unit I Light-Reflection and Refraction

Reflection of light, spherical mirrors; Image formation; uses of spherical mirrors.Sign, conventions for spherical mirrors. Refraction of light, refraction through a glass, refractive index, conditions for no refraction. Spherical lenses, image formation, sign conventions, lens formula (only relation). (05 Marks)

Unit II The Human Eye and the Colorful World

Human eye; power of accommodation; defects of vision and their correction.Glass prism (refraction and dispersion).Atmospheric refraction-twinkling of stars and color of sun at sunrise and sunset. (05 Marks)

Unit III Electricity

Concept of electric charge.Electric current; electric potential and potential difference; Ohm's Law and experimental verification; resistance and its dependence.Heating effect of current-Electric power and energy. (05 Marks)

Unit IV Source of Energy

Various sources of energy; Conventional sources of energy; improvement in technology for using conventional source of energy (Biomass and wind energy).Non-conventional sources of energy (Solar energy, Energy from Sea).Nuclear energy (Nuclear fusion and nuclear fission).Lasting of energy sources. (05 Marks)

Section-IV Chemistry (25 Marks)

Unit –I Chemical Reactions and Equation

Chemical equation, writing of chemical equation; balancing chemical equations. Types of chemical reactions; viz Combination reactions; Decomposition reactions; Displacement reactions; Double displacement reactions; Oxidation and reduction. Effects of oxidation and reduction reactions in everyday life, viz, corrosion and rancidity. (05 Marks)

Unit-II Carbon and its Compounds

Bonding in Carbon, Covalent bond, Allotropes of Carbon; Versatile nature of carbon; Saturated and unsaturated hydrocarbons; chains; branches and rings; homologous series and its characteristics. Chemical properties of carbon compounds viz. combustion; oxidation; addition and substitution reactions. Important Carbon compounds like Ethane and Ethanoic acid. Properties of Ethanoic acid. Soaps and Detergents. (05 Marks)

Unit-III Metals and Non-Metals

Physical properties of metals and non-metals. Chemical properties of metals like action of water, air, acids, salts. Cause of reactivity of metals and non-metals. Properties of Ionic compounds. Corrosion of metals and its prevention. (05 Marks)

Unit IV Acids, Bases and Salts

Idea about acids and bases; Chemical properties of acids and bases viz. Action of metals, metal carbonates, metal hydrogen carbonates (only in case of acids), metallic acids; non-metallic acids and bases. Similarities in acids and bases; reaction of acids and bases with water. Strength of acids and base solutions; pH and its importance. Idea of salts, their family and pH. Chemicals from common salts like Sodium hydroxide, Baking soda and Washing soda; Hydrated salts, plaster of paris. (10 Marks)

Section -V Biology (30 Marks)

Unit-I Life Processes

What are life processes? Nutrition-Autotrophic Nutrition. Heterotrophic Nutrition. How do animals obtain their nutrition? Nutrition in Human beings. Respiration. Transportation: Transportation in plants. Excretion: Excretion in Human beings, Excretion in plants. (05 Marks)

Unit-II Control and Co-Ordination

Animals- Nervous System, What happens in Reflex Action? Human Brain. How are these tissues protected? How does Nervous tissue cause action? Coordination in plants, immediate response to stimulus, movements due to growth.Hormones in Animals. (05 Marks)

Unit-III How do Organisms Reproduce?

The importance of variation.Modes of reproduction used by unicellular organisms. Fission, Fragmentation, Regeneration, Vegetative Propagation, Budding, Spore Formation, Sexual Reproduction: Why the sexual mode of reproduction? Reproduction in human Beings. Male Reproductive System, Female Reproductive System. What happens when the egg is not fertilized? Reproductive Health. (05 Marks)

Unit-IV Heredity and Genetics

Accumulation of variation reproduction, Heredity: Inherited traits, Rules for the interitance of traits, Mendel's contribution. How do these traits get expressed? Sex determination. Acquired and inherited traits.Speciation. Classification, tracing evolutionary relationships, fossils, evolution by stages. (05 Marks)

Unit-V Our Environment

Environment and Ecosystem- What are its components? Food chains and webs. How do our activities effect the environment? Ozone layer and how it is getting depleted. Managing the garbage we produce. (05 Marks)

Unit-VI Management of Natural Resources

Why do we need to Manage our Resources? Forests and Wild life, Stake holders, Sustainable Management, Dama, Water harvesting. Coal and Petroleum.An overview of Natural Resources Management. (05 Marks)

ANNEXURE “E”

Jammu & Kashmir Services Selection Board

Post Name: Fisheries Development Assistant

Multiple Choice Based Written test

Reference Guidelines and Syllabus

120 Marks/120Minutes

Syllabus

Riverine Fisheries resources: *Riverine fisheries resources of India (Ganga river system, Brahmaputra river system, Indus river system, East coast river system, West coast river system). Effect of Anthropogenic activities on riverine fisheries. Fish migration. Protection and restoration of fish movements (different types of fish passes and enhancement of fish migration). Measures for development, management and conservation of riverine fisheries resources. Stock enhancement strategies like introduction of new species, pre- and post-stocking management, potential risk of stocking, emerging issues in management.* **22 Marks**

Cold Water Fisheries of India: *Present trends, problems in coldwater fisheries of India. Resources of coldwater fisheries of India. Coldwater aquaculture practices in India. Hatchery management of trouts. Ecology and energy flow in typical wetlands of Kashmir, possible measures for fisheries development in coldwater areas. Sport fisheries (big game fishing, fishing tackle, bait casting, spin-casting, spinning and fly casting, jigging). Potential of Jammu and Kashmir for sport fisheries. Sport fishing in relation to tourism industry.* **12 Marks**

Reservoir Fisheries: *Classification of reservoirs, management practices in reservoir.* **7 Marks**

Fish Stock Management: *Concept and Definitions of Fish stock. Estimation of growth parameters and mortality rates. Virtual population methods. Yield per recruit model. Over exploitation; cause and measures.* **7 Marks**

Fisheries regulation: *Centre and states and their spheres of responsibility for fishery regulation. Control and surveillance (MCS) systems for capture fisheries. Regulatory and developmental issues concerning deep sea fishing with special reference to J&K State Fisheries Act.”* **12 Marks**

Aquaculture: Present scenario and problems: Trends in global and Indian aquaculture. Different farming systems. Different culturable finfish and shell fish in India. Culture of carps, cat fishes, shrimps. Integrated farming system (IFF). Fish species in IFF, types of IFF, Agri-aquaculture based system (Paddy-fish system, Horticulture-fish system, sericulture-fish system, aquatic-weed fish system), Animal husbandary-fish based system (Cattle-fish system, Goat-fish system, Duck-fish based, Poultry-fish system). Disease outbreaks in fish and shell fish. **16 Marks**

Aquatic environment: Classification of aquatic ecosystems. Physical and Chemical properties of fresh water ecosystem. Different sources of Pollution. Taxonomy of freshwater microphytes and macrophytes; their importance in resources management. **16 Marks**

Fish Breeding: History, constraints and current status of natural seed collection and hatchery seed production, Gamete maturation and development Hormonal pathways and mode of control in fish breeding. Induced breeding of fish. Carp hatcheries. Hapa breeding, Bundh breeding. Fresh water prawn breeding. **12 Marks**

Fish Nutrition: Brood stock nutrition. Nutrients required for fish. Protein nutrition of fish. Introduction, function and metabolism of protein, amino acids and their classification, specific function, protein deficiency symptoms, evaluation criteria of dietary protein. Introduction, function, metabolism, Fatty acids and their classification, specific functions of essential fatty acids, deficiency symptoms, evaluation of lipid quality, lipid nutrition in fish.

Definition of energetic, expression of energy value of feed (gross energy, digestible energy, metabolizable energy, net energy). Feed Formulation, classification of feed ingredients. Method of feed formulation. Pearson's method. Types of feed: Dry (Pellets, flakes, powered, micro-encapsulated, microbound and micro-coated diets) and non-dry. Promimate composition of feed. **16 Marks**