

GOVERNMENT OF JAMMU AND KASHMIR,
SERVICES SELECTION BOARD,
Sehkari Bhawan, Panama Chowk, Jammu

(www.jkssb.nic.in)

NOTICE

In continuation to this office notification issued under endorsement No SSB/ /Sel/Secy/2015/11503-13 dated 23-10-2015, whereunder batch of posts was notified for which a single written test is to be conducted in the Month of December 2015, it is hereby informed that the following posts shall also form part of the batch of posts notified vide aforementioned endorsement. The syllabus shall be same as notified for afore-mentioned posts and is again reproduced at Annexure "A" to this Notice.

Item No.	Adv. Notice No	Department	Name of the post	Cadre
284	01 of 2011	Technical Education	Vocational Instructor Digital Photographer	Div Kashmir
148	01 of 2011	Technical Education	Jr Lab Assistant	Div Jammu

(S.A Raina), KAS,
Secretary,
J&K Services Selection Board,
Jammu.

No. SSB/ /Sel/Secy/2015/13277-86

Dated: 24 -11-2015.

Copy to the:-

1. Principal Secretary to Hon'ble Chief Minister J&K.
2. Principal Secretary to the Hon'ble Governor, J & K State.
3. Director Information, J&K **Government** Jammu with the request to publish the above notification in at least three leading local newspaper of Jammu/Srinagar on three consecutive dates
4. Director, Radio Kashmir, Jammu/Kashmir. He is requested to kindly broadcast the above said notification appropriately.
5. Director, Doordarshan Jammu/Kashmir. He is requested to kindly telecast the above said notification appropriately.
6. Sr. Law Officer, J&K S.S.B., Srinagar/ Jammu
7. Administrative Officer, Service Selection Board, Jammu/Srinagar.
8. Private Secretary to Chairperson.
9. Incharge Website, SSB. He shall upload the notice on the official website of the Board.
10. Record File



Government of Jammu and Kashmir
J&K Services Selection Board
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Annexure "A"

Marks:-150

Time:-2:30 Hours

Syllabus for Written test (Objective Type) for the post of the above said posts.

Section I English. (20 Marks)

Unseen Passage, Phrases, Pronouns, Homonyms/ homophones, Tenses, Clauses, Punctuation, Articles. Basic understanding of English Language, Essay and letter writing. (20 Marks)

Section-I Mathematics (30 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

Zeroes of a Polynomial, Relationship between Zeroes 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. (10 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 (30 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.

(10 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 Biology (50 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. (10 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. (10 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. (10 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. (10 Marks)

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