

Annexure – C to 06/2017/15 to 28
Science/Maths Teacher
Syllabus/General guidelines
(120 Marks/120 Mins)

1. **Verbal Ability:** The candidates are expected to have good command over English language and its usage. It will be tested with focus on Articles, Verbs, Tenses, Prepositions, Synonyms, Antonyms, Punctuation, Reading comprehension, Cloze passage, Grammar, Idioms and phrases.

(15 Marks)

2. **Analytical Ability:** The candidates will be tested primarily on the various cognitive abilities using qualitative reasoning. The broad areas will include Letter Series, Number Series, Relationship Concepts, Direction Sense, Concept of Speed-Time-Distance, Coding-Decoding, Analogy etc.

(15 Marks)

3. **General Awareness and Current Affairs:** The objective of this section is to assess candidates' general knowledge of J&K, India and the World. Various areas to be covered under this section are - Important dates, First in world, First in India, First in J&K, Popular names of Personalities, Books & Authors, Languages, Capitals & Currencies, International Awards, National Awards, the world of Sports, various policies and schemes of Government of India and the State Government and other current events of national and international importance.

(10 Marks)

4. **Basics of Computers and its Usages:** This section will cover various facets of Computer Hardware, Software, Internet and their usage in professional life. The broad areas will be Fundamentals of Computer, Memory, Operating Systems, MS Office, Internet Browsers and other emerging trends in Digital India.

(10 Marks)

5. **Environmental Science:** This section will cover the study of the environment and discover solutions to environmental problems .Topics included will be climate change, natural resources, energy, pollution, environmental issues, interaction of plants and animals, the living and non-living components of the environment, formation, structure and history of earth, impact of environmental issues on our health and social lives etc.

(10 Marks)

6. **Physics:** This section covers important aspects of Physics which mainly include theory of Motion, Heat, Light, Sound, Oscillations, Elasticity, Magnetism, Electricity, Atomic, Molecular and Nuclear Physics etc.

(12 Marks)

7. **Chemistry:** Important Theories and Applications of Chemistry are covered in this section. The broad areas covered under this section include – Periodic Table, Periodic

Properties, Quantum Mechanics, Atomic Structure, Chemical Bonding, Metallurgy, Phenols, Ethers, Epoxides etc.

(12 Marks)

8. **Zoology:** This section covers the studies of zoology. Broad areas covered under this section are – Animal Physiology and Biochemistry; Systematics, Evolutionary Biology & Animal Behavior; Ecology, Biodiversity and Conservation; Parasitology, Microbiology and Immunology etc.

(12 Marks)

9. **Botany:** This section covers nuances of Botanical world. Areas to be covered under this section are – Introduction to Plant Taxonomy, Systems of Classification, Botanical Nomenclature, Morphological study of the plant body, Modern trends in Taxonomy, Taxonomic Evidence etc.

(12Marks)

10. **Mathematics:** This area covers mathematics and its application. It will cover the broad areas like – Number Theory, Arithmetic, Algebra, Geometry, Mensuration, Trigonometry, Permutation, Combination, Probability, Set Theory, Logarithm, Surds and Indices etc.

(12 Marks)
