

## **Annexure "C"**

### **Syllabus for the post of Inspector, Forest Protection Force**

**Marks: - 120**

**Time: -120min**

#### **UNIT-I GENERAL ISSUES ON ENVIRONMENT, ECOLOGY, BIODIVERSITY AND CLIMATE CHANGE.**

**10 Marks**

- i. General issues on Environment.
- ii. Climate Change and its impact on Ecology.
- iii. Mining and its effects, Renewable Energy.
- iv. Concept of Sustainable Development
- v. Environmental impact assessment
- vi. Animal and Bird Diversity.
- vii. Wildlife Poaching and Control Measures
- viii. Land use Classification in J&K
- ix. Forest Cover in J&K Based on FSI Assessment and etc.
- x. Air, Water and Noise Pollution.

#### **UNIT-II GENERAL ENGLISH**

**10 Marks**

- 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 Phrases, Pronouns, Homonyms/homophones, Tenses.
- 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

**UNIT-III MATHEMATICS****20 Marks**

- i. Quadratic Equations.
- ii. Sequences and Series Straight Lines.
- iii. Triangles, Circles and Coordinate Geometry.
- iv. Mensuration with particular thrust on problems on finding Surface areas and Volumes of cubes, cuboids, spheres, hemispheres and right circular cylinders/cones etc.
- v. Profit and loss.
- vi. Simple/Compound interest.
- vii. Linear equations with two variables.
- viii. Progression/BODMAS
- ix. Probability: Simple problems on Single event.
- x. Data Handling.

**UNIT-IV GENERAL SCIENCE****20 Marks**

- 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. Occurrence 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. Mendel's contribution and experiments on pea plant.
- xii. Types of reproduction in Plants and Animals.
- xiii. Classification of Plants and Animals.

**UNIT-V GENERAL KNOWLEDGE WITH SPECIAL REFERENCE TO J&K AND CURRENT AFFAIRS**

**10 Marks**

- i. Abbreviations, Important Dates,
- ii. Popular Personalities, Geographical Discoveries, Books and Authors,
- iii. Principal Languages of India,
- iv. Capitals and Currencies of Countries,
- v. United Nations Organization, Members of United Nations Organization
- vi. Organizations and Groups.
- vii. Members of SSARC, ASEAN, BRICS AND G-7,
- viii. Space Programme of India, India's Atomic Research Programme,
- ix. Awards, Honors and Prizes, Seven Wonders, The World of Sports.
  - a. India GDP, Per capita Income, Thermal/Nuclear/Hydro Power Plants in India
  - b. Important dates, Popular names of personalities and their achievements/contribution.
  - c. Constitution of J&K with reference to Constituent Assembly.
  - d. Centre-State relationship.
- x. Weather, Climate, Crops, Means of Transport.
- xi. Important projects and their impact on State Economy.
- xii. Rivers and Lakes.
- xiii. Important Tourist Destinations.
- xiv. History of J&K State.
- xv. Historical places and their importance.
- xvi. Flora and Fauna of J&K State.
- xvii. J&K Reorganisation Act 2019, and Removal of difficulties Order/Adaptation Orders issued thereafter.

**UNIT-VI MENTAL ABILITY TEST**

**10 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 HISTORY**

**10 Marks**

- i. Revolt of 1857 - Causes and Effects.
- ii. Rise of National Movement - Factors.
- iii. Formation of the Indian National Congress in 1885 and Role of Moderates.
- iv. Factors leading to the rise of Extremism in the Congress with special reference to the Partition of Bengal.
- v. Important dates and historical events with reference to India
- vi. Boycott and Swadeshi Movement.
- vii. Rise of Muslim League in 1906: Cause.
- viii. Khilafat Movement and the Non-Cooperation Movement.
- ix. Quit India Movement.
- x. Independence and Partition of India.

### **UNIT-VIII CIVICS**

**10 Marks**

- i. Fundamental Rights.
- ii. Fundamental duties.
- iii. Directive Principles.
- iv. Origin of democracy and its types. Direct and Indirect Democracy, Hindrance to Democracy.
- v. Public opinion.
- vi. Representation.
- vii. Franchise.
- viii. Secret Ballot.
- ix. Nomination.
- x. Symbol.
- xi. The Campaign
- xii. Presidential elections.
- xiii. Languages
- xiv. Cities and Villages.
- xv. The United Nations.

### **UNIT-IX GEORGRAPHY**

**10 Marks**

- i. Change of Seasons/Planets/Solar System/Longitude - Latitude.
- ii. Types of forests (with special reference of J&K State)
- iii. Conservation and protection of forests.

- iv. National/Zoological Parks and wildlife sanctuaries (Reference of J&K Sanctuaries and National Parks).
- v. Water resources, Sources of water (with special reference of J&K), Uses of water Resources. Conservation and management of water resources.
- vi. Rainwater Harvesting.
- vii. Transport.
- viii. Roads (Different routes of J&K State)

**UNIT-X      COMPUTER**

**10 Marks**

- i. Fundamentals of Computer Science.
- ii. Basic Applications of Computer and its accessories.
- iii. Hardware and Software concept of Computer.
- iv. Knowledge of Operating System, MS Office complete, Email & Internet.
- v. Role of Computer in IT Field and detail concept/contribution of Information Technology in our daily life.
- vi. Knowledge of surfing of websites on internet, downloading and uploading of files, online conversion of files from PDF to JPG and vice versa.
- vii. Knowledge of KMZ files, capturing of Geo tagging photos and their uploading
- viii. Concept of Computer Viruses and latest Anti-Virus, their installation and online registration.
- ix. Concept of latest Computer applications (Apps) utilized in Field working in Forest Department.
- x. Knowledge of e-office.

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