

2015

GEOGRAPHY

Paper : 103

SOIL AND BIOGEOGRAPHY

Full Marks : 80

Time : 3 hours

The figures in the margin indicate full marks for the questions

- 1 Answer the following questions. 1X 10=10
- (i) The headquarter of IUCN is at ____
(a) Gland (b) Geneva (c) Zurich (d) Bern
- (ii) Marsupials are found in ____
(a) Australia (b) Asia (c) Europe (d) Antarctica
- (iii) Australian Temperate Grasslands are called ____
(a) Pampas (b) Downs (c) Steppes (d) Veldts
- (iv) Epiphytes are ____
(a) Crippers and climbers (b) Trees (c) Flowers
(d) Mammals
- (v) Which of the Biomes mostly receive winter rainfall?
(a) Tropical Evergreen Rainforest
(b) Monsoon Deciduous

(c) Savanna (d) Mediterranean

(vi) Dark colour of soil in waterlog soil is due to

- (a) Oxidation (b) Anaerobic activity (c) Iron oxide
(d) Water

(vii) What is the size of silt

- (a) 2-1mm (b) 0.5-0.04mm (c) 0.05-0.002mm
(d) <0.002mm

(viii) What is the pH value of water?

- (a) 5 (b) 6 (c) 7 (d) 8

(ix) What is pH?

- (a) Hydrogen ions (b) Hydrogen atom
(c) Hydrogen bond (d) Hydrogen oxide

(x) Which soil is highly porous?

- (a) Clay (b) Silt (c) Sand (d) Sandy loam

2 Answer in brief (any four) 2X4=8

- (i) What is humus?
(ii) What is oxidation?
(iii) What is parent rock in soil science?
(iv) What is soil enrichment?
(v) Write the concept of ecosystem.
(vi) What is pedology?
(vii) What are biogeographical regions?

(2)

P.T.O.

3. Answer in brief (any four) 5 × 4 = 20

- (i) What is soil Profile? Differentiate Eluviation and Illuviation?
(ii) Give diametric values of sand, silt and clay. What do you understand by soil texture and loam soil?
(iii) What is sheet, gully and rill erosion?
(iv) What is an ecosystem? What are its components?
(v) Explain what a biodiversity hotspot is.
(vi) Write about the IUCN.

4. Answer in detail (any Two) 9 × 2 = 18

- (i) Explain distribution of different soil types and its characteristics with respect to Indian.
What is Catastrophism? How is Catastrophism different from Uniformitarianism?
(ii) Explain the processes of soil formation and mention different soil formation factors with suitable diagrams.
(iii) What is soil texture? Give detail account of physical characteristics of soil with suitable diagram.
(iv) What is soil erosion? Explain factors, need and measures of soil conservation
(v) What is Biodiversity? Mention the biodiversity hotspots of the world with the help of a suitable diagram. How can we conserve it?

(3)

P.T.O.

5. Answer in Detail (Any two)

12 × 2 = 24

- (i) What is biogeography? Explain its subject matter?
- (ii) What is a biome? Mention names of different biomes of the world with the help of a suitable diagram and explain one of them in detail.
- (iii) What is meant by forest policy of India? Discuss in the National Forest Policy of India.
- (iv) What do you mean by a grass land? Explain the two types of grasslands found in the world by showing their location in a world map sketch.

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