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(CBCS)

(6th Semester)

GEOGRAPHY

TWELFTH (B) PAPER

(**Biogeography**)

(Revised)

Full Marks : 75

Time : 3 hours

The figures in the margin indicate full marks for the questions

(**SECTION : A—OBJECTIVE**)

(Marks : 10)

Tick (✓) the correct answer in the brackets provided :

1×10=10

1. The biosphere includes

- (a) lithosphere, hydrosphere and atmosphere ()
- (b) rocks and minerals ()
- (c) animals and plants only ()
- (d) only water bodies ()

2. Who is regarded as the father of biogeography?

- (a) Alfred Russel Wallace ()
- (b) Eduard Suess ()
- (c) Hewett Cottrell Watson ()
- (d) Philip Lutley Sclater ()

3. The vertical cross-section of the soil is
- (a) soil erosion ()
 - (b) soil profile ()
 - (c) soil structure ()
 - (d) soil texture ()
4. When the salt content of the earth rises to dangerous level, it is called as
- (a) Soil compaction ()
 - (b) Soil acidification ()
 - (c) Soil salinization ()
 - (d) Loss of arable land ()
5. The major limiting factor for plant growth in Tundra biome is
- (a) soil nutrients ()
 - (b) water availability ()
 - (c) temperature ()
 - (d) wind ()
6. Cosmopolitan distribution in biogeography refers to
- (a) same and similar species widely distributed all over the world ()
 - (b) same and similar species found only in specific area ()
 - (c) animal species restricted to a particular continent ()
 - (d) plant species restricted to a very small area ()
7. The pyramid of numbers can be
- (a) upright only ()
 - (b) inverted only ()
 - (c) horizontal only ()
 - (d) upright and inverted ()
8. The energy flow in the ecosystem follows the ____ law.
- (a) 20 percent ()
 - (b) 10 percent ()
 - (c) 45 percent ()
 - (d) 30 percent ()

9. What conservation strategy involves the sustainable management of forests to prevent soil erosion and promote biodiversity?
- (a) Subsistence farming ()
 - (b) Organic farming ()
 - (c) Social forestry ()
 - (d) Sustainable logging ()
10. The maximum biodiversity is found in
- (a) tundra ()
 - (b) coniferous forest ()
 - (c) temperate forest ()
 - (d) tropical rainforest ()

(SECTION : B—SHORT ANSWERS)

(Marks : 15)

Write short notes on the following :

3×5=15

UNIT—I

1. Role of climate in geographical distribution of plants and animals

OR

2. Marine biogeography

UNIT—II

3. Causes of soil degradation

OR

4. Measures of soil erosion

UNIT—III

5. Endemic species

OR

6. Endangered species

UNIT—IV

7. Pyramid of biomass

OR

8. Biogeochemical cycle

UNIT—V

9. Urban forestry

OR

10. Rural forestry

(SECTION : C—DESCRIPTIVE)

(Marks : 50)

Answer the following questions :

10×5=50

UNIT—I

1. Define biogeography. Discuss the components of biogeography. 2+8=10

OR

2. What is biosphere? Describe the elements of biosphere. 2+8=10

UNIT—II

3. What is soil classification? Discuss the different soil classification systems. 2+8=10

OR

4. What factors are responsible for the distribution of soil? Describe the distribution of soil at global level. 2+8=10

UNIT—III

5. Describe the controlling factors responsible for the distribution of plants. 10

OR

6. Explain the factors affecting the world distribution of animals. 10

UNIT—IV

7. Describe the food chain in an ecosystem. 10

OR

8. Discuss how food web represents the relationship between producers, consumers and decomposers in an ecosystem. 10

UNIT—V

9. Discuss the long-term consequences of continued deforestation. 10

OR

10. Define biodiversity. Describe the two basic approaches for the conservation of biodiversity. 2+8=10
