

2017

BOTANY

Paper : 206

BIODIVERSITY AND CONSERVATION

Full Marks : 40

Time : 1¹/₂ hours

The figures in the margin indicate full marks for the questions

1). Answer the following Multiple Choice Questions (all are compulsory)

(1 × 4= 4)

- (i) The climax communities:
- (a) Are more diverse than pioneer communities
 - (b) Are less stable than pioneer communities
 - (c) Have Greater entropy than pioneer communities
 - (d) Have a larger number but fewer species of plants than pioneer communities
- (ii) The species which have a restricted distribution are known as:
- (a) Ecospecies
 - (b) Sympatric species
 - (c) Allopatric specie
 - (d) Endemic species

(iii) The most important strategy for the conservation of Biodiversity is the establishment of:

- (a) Biosphere reserve
- (b) Botanical Garden
- (c) National Parks
- (d) Community forest

(iv) The type of diversity including all the different kinds of living organisms found in a certain habitat is called as:

- (a) Species diversity
- (b) Genetic diversity
- (c) Ecosystem diversity
- (d) Population diversity

2). Answer the following questions (any three) (2 × 3 = 6)

- a. Differentiate between Alpha diversity and Beta diversity
- b. What are the common features of threatened plants?
- c. Differentiate between critically endangered and endangered.
- d. Write the full form of CITES, WCED and ICAR.

3). Write an explanatory notes on any two of the following

(5 × 2 = 10)

- a. Sustainable Development
- b. Types of Biodiversity
- c. Seed Bank

- d. NBPGR
- e. Gene Bank

4). Answer the following questions (any one) (8 × 1=8)

- a. What is IUCN Red list? Discuss the different categories and criteria of IUCN Red List. (2+6=8)
- b. What is in situ conservation? Write a brief note on International and National Initiatives for conservation of biodiversity.

(1+7=8)

5). Answer the following questions (any one) (12×1=12)

- a. Write a brief account on RET plants of NE India. Discuss the conservation strategy of RET plants of NE India. (6+6=12)
- b. Define Biodiversity? Explain different values of Biodiversity. Write the factors affecting biodiversity. (2+5+5=12)
