(b) Pollination and symbiosis

5. What is a biome? Name the major terrestrial biomes. Give a detailed account of tropical rainforests as a biome. Why are they considered nature's pharmacy? [2+2+8+2=14]

OR

6. Write notes on the following: [2x7=14]
   (a) Geographic origins and migrations of species
   (b) Mechanism of ecological succession

7. What do you mean by global environmental change? Elaborate the impact of climate change on human health and food security. [4+10=14]

OR

8. Write notes on the following: [8+6=14]
   (a) Aquatic ecosystem
   (b) Plastic pollution

9. In the light of Biodiversity Act (2002), critically analyze the role of biodiversity management committees in conservation of biological diversity. [14]

OR

10. Write a descriptive note on the principles of remote sensing in biodiversity conservation. [14]

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PG EVEN SEMESTER EXAMINATION, 2023

LIFE SCIENCE & BIOINFORMATICS

2nd Semester (NEP)

Course No. : LS - 554 (IDC)

(Environmental and Conservation Biology)

Full Marks : 70

Pass Marks : 28

Time : 3 hours

The figures in the margin indicate full marks for the questions

(Answer all questions)

1. What is adaptive radiation? What are the factors that influence adaptive radiation? Add a detailed account on adaptive radiation. [2+4+8=14]

OR

2. Write notes on the following: [2x7=14]
   (a) Taxonomic hierarchy
   (b) Reproductive isolation and concept of species

3. What do you mean by a habitat? Differentiate between habitat and niche? Describe the features and matrices of habitat quality and quantity. [2+2+10= 14]

OR

4. Write notes on the following: [2x7=14]
   (a) Biotic and abiotic interactions in the environment