2020

BOTANY (Honours)

Paper : BOTH-DC-6

(CBCS)

Full Marks : 25 Time : Two Hours

The figures in the margin indicate full marks.
Candidates are required to give their answers in their own words as far as practicable.

1. Answer any *five* questions of the following : 1×5=5

   (i) What is chelation?

   (ii) Which type of soil-water is absorbed by plants?

   (iii) Give an example of plant based commensalism.

   (iv) What is indicated by organism's ecological amplitude?

   (v) Define 'ten percent law' of energy transfer.

   (vi) What is ammonification?

   (vii) How would you differentiate between hydrarch and xerarch?

   (viii) According to Red data Book write full form of E, V, R and T.

2. Answer any *four* questions of the following : 3×4=12

   (i) Discuss different types of precipitations. 3

   (ii) What is Ecotone? Write the causes of greater biodiversity in Ecotone. 1+2=3

   (iii) State the differences between gaseous and sedimentary cycle. 3

   (iv) Write briefly thetrue mangrove species composition of Sundarban vegetation. 3

(v) What is niche? Explain hypervolume niche. 1+2=3

(vi) Mention location and important plants of any two Biosphere Reserve of India? 1½+1½=3

3. Answer any *one* question of the following : 8×1=8

(i) Diagrammatically explain any single channel energy flow model in ecosystem. 8

(ii) What is cryopreservation? Describe different *ex-situ* conservation strategies for endangered plant species. 1+7=8