63/2 (SEM-2) BOT 206(OE)

2022

BOTANY

(Theory Paper)

Paper Code : BOT 206(OE)

(Biodiversity and Conservation)

Full Marks – 50

Time – Two hours

The figures in the margin indicate full marks for the questions.

1. Choose the correct answer for the following questions : 1×5=5

   (i) The Earth Summit held at Rio De Janerio in 1992 resulted into

   (a) Establishment of Biosphere reserves

   (b) Compilation of Red List

   (c) Convention of Biological Diversity (CBD)

   (d) Establishment of IUCN

(ii) Biodiveristy Act of India was enacted in the year

   (a) 2000   (b) 2002

   (c) 2005   (d) 2007

(iii) Which of the following convention is related to wetland ?

   (a) WHC   (b) Ramsar Convention

   (c) CITES   (d) CBD

(iv) Nameri National Park is famous for

   (a) Elephant   (b) Rare fish species

   (c) Rare bird species   (d) All of the avove

(v) Hotspot concept was developed by

   (a) Weaver   (b) Odum

   (c) Clements   (d) Norman Mayers

2. Answer the following short questions : 2×5=10

   (a) What are exotic species ? Give example.

   1+1=2

   (b) Define Sustainable development (SD). State the basic pillars for sustainable development.

   1+1=2

   (c) What is RET ? Give two examples. 1+1=2

(d) What is meant by biodiversity hotspot ? Mention the criteria for a region to be considered a biodiversity hotspot. ½+1½=2

(e) State the various factors for endemism.

3. Write short notes on any *five* :   5×5=25

   (a) Threatened plants

   (b) Seed Bank

   (c) Cryopreservation

   (d) Botanical Garden

   (e) RET plants of North East India

   (f) Biosphere Reserve

   (g) National Park.

4. Answer any *one* of the following questions :

   10×1=10

   (a) Define biodiversity. State the different types of diversity. Add the values of biodiversity.

   2+3+5=10

   (b) Define in-situ and ex-situ conservation. How do in-situ and ex-situ differ in the approaches of biodiversity conservation ? Which type of organisms require ex-situ conservation ?

   2+6+2=10