

Total number of printed pages-4

14 (BOT-3) 3036 (O)

2023

BOTANY

(Old Course)

Paper : BOT-3036

(Environment and Forest Management)

Full Marks : 80

Time : Three hours

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

1. Choose the correct answer in the following questions/Answer in one word : $1 \times 10 = 10$
 - (i) Write an example of ex-situ conservation.
 - (ii) Which is the natural reserve of phosphorus ?
 - (iii) In which year the Wildlife Protection Act was enacted in India ?

Contd.

- (iv) Write an example of one renewable exhaustible natural resource found in Assam.
- (v) Name the process of breaking down of detritus into smaller particles by earthworm.
- (vi) In which NE state the highest number of sacred groves are present ?
- (vii) In which year the Biodiversity Act of India was passed by the Parliament?
- (viii) What is the main cause of increasing greenhouse gas in earth ?
- (ix) In which year Kyoto Protocol was endorsed at Cop ?
- (x) How many Ramsar sites are there in North-East ?

2. Briefly describe or define the following :

2×5=10

- (a) Urban forestry
- (b) Climate
- (c) Food web
- (d) Eco-sensitive area
- (e) Flagship species

3. Write on **any three** of the following :

5×3=15

- (a) Salient feature of the Biodiversity Act of India
- (b) Success rate of joint forest management
- (c) Merits of in-situ conservation
- (d) National parks of Assam
- (e) Ecosystem services to mankind

4. Answer **any three** of the following :

15×3=45

- (a) What do you mean by mineral cycling ?
Write a note on the importance of water cycle in nature. 3+12=15
- (b) Define biodiversity. Write a note on different in situ traditional conservation strategies taken in Assam. 3+12=15
- (c) Define vegetation. Write an essay on sustainable forest management practices of N-E India with special reference to Assam. 3+12=15

- (d) What do you mean by genetic engineering ? Write a note on different approaches of genetic engineering in biodiversity conservation. 3+12=15
- (e) Write a note on possible reasons of climate changes and its consequences. 7.5×2=15
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