

Total number of printed pages-4

3 (Sem-5/CBCS) BOT HE 1

2023

**BOTANY**

(Honours Elective)

Paper : BOT-HE-5016

**(Natural Resource Management)**

Full Marks : 60

Time : Three hours

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

1. Answer the following :  $1 \times 7 = 7$

- (a) What are non-conventional energy resources ?
- (b) What is desertification ?
- (c) What is Agenda 2030 of United Nations ?
- (d) Which organisation is responsible for assessment of forest cover in India using satellite data on a two-year cycle ?

Contd.

- (e) For self sustained society what are five Fs of Chipko Movement ?
- (f) Write the full form of IUCN.
- (g) What is Cartagena Protocol ?

2. Answer the following questions :  $2 \times 4 = 8$

- (a) What is biomass energy ?
- (b) Remote sensing technology.
- (c) What is ecological foot print ?
- (d) What is participatory resource appraisal ?

3. Answer **any three** of the following questions :  $5 \times 3 = 15$

- (a) What is carbon foot print ? How reducing carbon footprint will help in combating climate change ?
- (b) Write about the genesis of CBD and its significance.
- (c) What is land use and land cover change ? How it influences the biodiversity ?

(d) Discuss the different methods of soil conservation practices.

(e) Discuss various measures to curb the Man-Animal conflict in Assam.

4. Answer the following questions :

10×3=30

(a) What are the main impacts of development on environment? Discuss the basic measures taken for the environmental management.

5+5=10

Or

‘Sustainable utilization of resources is key to achieve the ecological, economic and socio-cultural sustainability.’  
—Discuss. 10

(b) What is bioprospecting? How IPR helps to safeguard the bioprospecting of indigenous knowledge of the people of India. 3+7=10

Or

Discuss the various values of biodiversity. 10

- (c) Discuss the advantages and disadvantages of large dams in the context of North East region. 10

Or

What is EIA ? Discuss the significance of EIA in assessing the effects of a project or development proposal.

3+7=10

Or