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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 :  $10 \times 3 = 30$

(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

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

(b) What is bioprospecting? How IPR helps to safeguard the bioprospecting of indigenous knowledge of the people of India.

Or

Discuss the various values of biodiversity.