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 : 1×7=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 ?

(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 : 2×4=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 : 5×3=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.

$3+7=10$