Total number of printed pages-4

3 (Sem-5/CBCS) BOT HE1

2024s to all bidW : (8)

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. Fill in the blanks. Answer the following: 1×7=7
 - (a) United Nations identified _____ sustainable development goals to be achieved by 2030.
 - (b) To maintain ecological stability _____ of total geographical area should be under forest cover.
 - (c) One can get an idea about the extent of consumption of resources and waste generation by a country or by individual in a country by calculating the ____.

Contd.

- What are exhaustible sources of energy?
- What is an aquifer?
- What is 'land use change'?
- What are 'hot spots' of biodiversity?
- 2. Answer the following:

 $2 \times 4 = 8$

- What are the 4 R's of waste management?
- What is ecological sustainability?
- What is Nagoya Protocol?
- What is GIS?
- 3. Answer the following (any three): 5×3=15
 - (a) What are the merits and demerits of bioprospecting?
 - Write on natural resource accounting and its significance.
 - "Energy consumption of a nation is usually considered as an index of its development." Justify.

- Write a note on participatory resource appraisal.
- Write on the evolution of National Biodiversity Action Plan (NBAP) in India.
- 4. Answer the following (any three): 10×3=30
 - What is sustainable development? Discuss some important measures of sustainable development. 3+7=10
 - Why is water considered as one of the most important natural resources? Write the uses of water in different sectors. Mention some of the major international and national water disputes. 2+5+3=10
 - What are the major and minor forest products? Write a note on the NTFPs of Northeast India and their significance in the upliftment of the economic condition of the region. 4+6=10
 - What are different types and sources of solid waste? Explain the importance of solid waste management. 4+6=10

- What is IPR? Discuss the role of IPR in (e) curbing biopiracy and conservation of 3+7=10biodiversity.
- (f) Discuss different national international efforts in resource management and conservation.

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