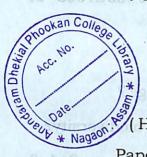
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3 (Sem-5/CBCS) BOT HE1

2024 no si tadW

BOTANY SI JEMW

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.

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

2×4=8

Or Acc. No.

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

- (d) Write a note on participatory resource appraisal.
- (e) Write on the evolution of National Biodiversity Action Plan (NBAP) in India.
- 4. Answer the following (any three): 10×3=30
 - (a) What is sustainable development?

 Discuss some important measures of sustainable development. 3+7=10
 - (b) 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
 - (c) 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
 - (d) What are different types and sources of solid waste? Explain the importance of solid waste management. 4+6=10

3

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



What are the major and minor forest