

(e) What is IPR? Discuss the role of IPR in curbing biopiracy and conservation of biodiversity. 3+7=10

(f) Discuss different national and international efforts in resource management and conservation.

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2024

BOTANY

(Honours Elective)

Paper : BOT-HI-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 \_\_\_\_\_.

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(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

(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.

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(d) Write a note on participatory resource appraisal.

(e) Write on the evolution of National Biodiversity Action Plan (NEAP) 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

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Contd.