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3 (Sem-5/CBCS) BOT HE 1

2022

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: (any seven) $1 \times 7 = 7$

(a) What are renewable resources ?

(b) What is a glacier ?

(c) What is terrace cultivation ?

(d) Give one example of biogas.

(e) What are aeroallergens ?

(f) Write the full form of IPR. (Intellectual Property Right)

(g) What is sustainable development ?

Contd.

- (j) What do you mean by biodiversity ?
- (i) Name the BRICS countries.
- (h) Write the full form of EIA. (Environmental Impact Assessment)
- (k) Define agroforestry.
- (l) What is silviculture ?

Answers the following questions : $2 \times 4 = 8$
(any four)

- (a) Write about Earth Charter.
- (b) What are the different sources of energy ?
- (c) What is afforestation ?
- (d) What do you understand by social forestry ?
- (e) Write about tidal energy.
- (f) Give two examples of inexhaustible resources.
- (g) Can hydrogen be produced biologically ?
- (h) Define plant indicators.

3. Answer **any three** of the following : $5 \times 3 = 15$

- (a) Discuss the National efforts in resource management and conservation.

- (b) What are the threats to sustainable development ?

(c) "Our forest resources are depleting very fast." Suggest possible measure to check deforestation. ✓

- (d) Write a short note on bioprospecting.

- (e) Write about environmental priorities in India.

(f) Discuss shortly about IUCN Red list categories. ✓

- (g) Characteristics and importance of marine habitat.

- (h) Discuss about non-conventional energy sources.

4. Answer **any three** of the following questions : $10 \times 3 = 30$

- (a) What is remote sensing ? Enumerate the role of G.I.S. application in different fields of environment assessments.

(b) Could social forestry help poor and wasteland management in India ? Explain.

- (c) Discuss briefly about environmental organisation and agencies.
- (d) "Forests are an important natural resource." Comment and discuss the current status of forest cover in India.
- (e) What is IPR ? Mention how IPR is helpful in safeguarding large diversity of traditional products in India.
- (f) What is soil degradation and management ? Describe the management for soil degradation.
2+8=10
- (g) Discuss about bioethics and conservations.
- (h) Write explanatory note on ecological footprint with emphasis on carbon footprint.
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