

**MAR-21-210007****B. Tech. EXAMINATION, March 2021**

Semester I &amp; II (CBCS)

ENVIRONMENT AND ECOLOGY

HS-102

Time : 2 Hours

Maximum Marks : 60

*The candidates shall limit their answers precisely within 20 pages only (A4 size sheets/assignment sheets), no extra sheet allowed. The candidates should write only on one side of the page and the back side of the page should remain blank. Only blue ball pen is admissible.*

**Note :** Attempt *Four* questions in all, selecting *one* question from each Sections A, B, C and D. All questions carry equal marks.

**Section A**

1. (a) What is environment ? Discuss the various types of environment. **7.5**
- (b) Discuss the use and importance of forest resources in India. **7.5**

2. (a) What are mineral resources ? Discuss about their use and exploitation. **7.5**
- (b) "The need for public awareness about environment is of vital importance." Discuss. **7.5**

**Section B**

3. (a) Write the procedure of an ecosystem with their structure and function. **8**
- (b) What are the values of biodiversity ? **7**
4. (a) What is ecological succession and food chain ? Explain. **6**
- (b) What are the main causes of threat to species in India ? **9**

**Section C**

5. (a) What is air pollution ? What are common air pollutants ? How can it be controlled ? **9**
- (b) Discuss Johannesburg summit. **6**
6. (a) What is water pollution ? What are its sources ? How water pollution can be controlled ? **9**
- (b) Discuss about Rio declaration. **6**

## Section D

7. (a) What is chemical toxicology ? Discuss the impact of toxic chemicals on enzymes. **7.5**  
(b) What is treatment of waste water ? Discuss. **7.5**
8. (a) Write a short note on pesticides in water. **7.5**  
(b) What are the sources and effects of municipal waste ? <https://www.hptuonline.com> **7.5**
9. Answer all the questions : **10×1.5=15**  
(a) Distinguish physical and social environment.  
(b) Define energy flow in ecosystem.  
(c) What is Deforestation ?  
(d) What is national flood control programme ?  
(e) Discuss Kyoto protocol.  
(f) Differentiate between biodegradable and non-biodegradable pollutant.  
(g) What is pyramid of number ?  
(h) ICAR means.....  
(i) Vienna convention  
(j) List the causes of food problem.