

Roll No. ....

Total No. of Questions : 09]

[Total No. of Pages : 02

**B.Tech. (Sem. - 6<sup>th</sup>/7<sup>th</sup>/8<sup>th</sup>)**  
**ENVIRONMENTAL SCIENCE**  
**SUBJECT CODE : CE - 216 (Elective)**  
**Paper ID : [A0483]**

[Note : Please fill subject code and paper ID on OMR]

Time : 03 Hours

Maximum Marks : 60

**Instruction to Candidates:**

- 1) Section - A is **Compulsory**.
- 2) Attempt any **Four** questions from Section - B.
- 3) Attempt any **Two** questions from Section - C.

**Section - A**

**Q1)**

**(10 × 2 = 20)**

- a) Define ecosystem. List the components of ecosystem.
- b) Define ecological succession.
- c) What is meant by bio-fuel? How is it important in environmental conservation?
- d) What is acid rain? What are the causes and effects of acid rain?
- e) What are major water pollutants arising out of agricultural practices?
- f) Explain the first law of thermodynamics as applied to ecological energy flows.
- g) Differentiate between composting and vermicomposting.
- h) What are the causes of noise pollution? How is noise pollution measured?
- i) List the mitigation measures of natural disasters.
- j) Discuss the relationship between human health and environment.

**Section - B**

**(4 × 5 = 20)**

**Q2)** Though population growth shows a global decline, there is still cause for worry. Why?

**Q3)** What are various renewable energy options? Explain why their use is important?

- Q4)** What is meant by sustainable development? What are the global strategies to achieve sustainable development goals?
- Q5)** Suggest possible role of Worldwide Web (www) and GIS in environmental management.
- Q6)** What are chlorofluorocarbons (CFC)? What are its major uses? Explain its significance in global atmospheric change.

**Section - C**

**(2 × 10 = 20)**

- Q7)** (a) What is the necessity for a rational land use policy as part of the environmental policy?
- (b) Write briefly about the unequal consumption patterns of the developed and developing countries.
- Q8)** Write notes on :
- (a) Public participation and NGO initiatives in India for environmental protection.
- (b) Global warming and policy initiatives.
- Q9)** “All things come from earth, and to earth they all return”. Elucidate considering the major biogeochemical cycles in nature.

XXXXXX