

M.Sc. (Final) (Environmental Science) CBCS Pattern Semester-III
PSCENVT12A - (Foundation Course) Paper-XII :
Fundamentals of Environmental Science

P. Pages : 1

Time : Three Hours



GUG/W/23/11267

Max. Marks : 80

- Notes : 1. All questions are compulsory and carry equal marks.
2. Illustrate the answers with suitable diagrams and examples.

1. How earth is formed? Describe the structure of the Earth. Give the composition of the Earth crust. **16**

OR

- a) Explain Big Bang theory. What are meteorites? **8**
b) Highlight the key concepts in Environmental Science. **8**

2. Discuss gravitational and magnetic fields as the Earth system processes. Explain the origin of main geomagnetic field. **16**

OR

- a) Discuss atmosphere-ocean and atmosphere-land interface. **8**
b) Explain the contribution of erosion and deposition towards glaciated landscapes. **8**

3. Describe global climate change process. Discuss various effects of global climate change. **16**

OR

- a) How ozone layer is formed? Comment on global debates on ozone layer protection. **8**
b) Compare pre-industrial and existing atmospheric CO₂ concentration. State global warming potential of GHG's. **8**

4. Highlight the contribution of various environmental movements towards its protection and conservation. **16**

OR

- a) Assess the potential of "2030 Agenda for Sustainable Development" for transforming our world. **8**
b) Explain the concept of sustainability. Develop a relationship between sustainability and society. **8**

5. a) Highlight the special features of the Earth. **4**
b) How movement of lithosphere plates takes place? **4**
c) Discuss the control measures for global warming. **4**
d) Write a note on corporate social responsibility. **4**
