

M.Sc.- I (Environmental Science) (CBCS Pattern) Sem-I  
**PSENVT02 / PSCENVT02 - Paper-II : Fundamental of Atmospheric Science**

P. Pages : 1

Time : Three Hours



**GUG/W/22/11159**

Max. Marks : 80

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

1. Describe atmosphere with its composition, structure and evolution. **16**

**OR**

- a) Explain material balance and heat transfer process in atmosphere. **8**  
b) Write reaction of oxide of sulphur and oxides of nitrogen in atmosphere. **8**

2. Discuss clouds with its classification. Explain the role of clouds in weather forecasting. **16**

**OR**

- a) Describe factors affecting rate of evaporation. **8**  
b) Write elaborative note on climate and urban planning. **8**

3. Explain aims and objectives of meteorology along with measurement of primary meteorological parameters. **16**

**OR**

- a) Describe atmospheric stability and stability classes. **8**  
b) Discuss how collection and analysis of wind data in applied meteorology is done. **8**

4. Describe Antarctic ozone hole and its consequences. Write a brief note on advanced research to protect ozone layer. **16**

**OR**

- a) Discuss climatic effects due to depletion of ozone on environment. **8**  
b) Explain green house gases with its effects. **8**

5. a) Describe modern views regarding the structure of atmosphere. **4**

b) Explain depletion of solar radiation. **4**

c) Explain how relative humidity is measured. **4**

d) What is La-Nino phenomenon. **4**

\*\*\*\*\*