

M.Sc. (Part - I) (Environmental Science) (CBCS Pattern) Semester - I
PSENVT02 / PSCENVT02 - Paper-II : Fundamentals of Atmospheric Science

P. Pages : 1

Time : Three Hours



GUG/S/23/11159

Max. Marks : 80

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

1. Discuss structure of atmosphere with a neat sketch. **16**
- OR**
- a) Explain heat transfer processes in atmosphere. **8**
- b) Discuss earth's radiation balance. **8**
2. Discuss forms of condensation w.r.t. dew frost & fog. **16**
- OR**
- a) Briefly explain classification of clouds. **8**
- b) Explain tropical disturbance and their environmental significance. **8**
3. Discuss in detail primary meteorological parameters. **16**
- OR**
- a) Briefly explain types of inversion. **8**
- b) Explain effects of meteorological parameters on environment. **8**
4. Discuss climatic effects and environmental disturbance due to ozone layer depletion. **16**
- OR**
- a) Explain El Nino and La Nino phenomenon. **8**
- b) Discuss Antarctic ozone hole and its consequences. **8**
5. a) Write first and second law of thermodynamics. **4**
- b) What is atmospheric disturbance? Explain it. **4**
- c) Write a note on relative humidity. **4**
- d) Explain formation of ozone layer with suitable reactions. **4**
