Register Number:

Date: 3-12-2022 (1 pm)

****

**ST. JOSEPH’S UNIVERSITY, BENGALURU – 27**

**M.Sc. ENIVRONMENTAL SCIENCE AND SUSTAINABILITY – I SEMESTER**

**SEMESTER EXAMINATION: OCTOBER 2022**

**(Examination conducted in December 2022)**

**ESS – 7122: ATMOSPHERIC SCIENCES**

**TIME: 2 HOURS MAX MARKS: 50**

**This question paper contains ONE printed side and THREE parts**

**Draw diagrams and write examples wherever necessary**

**PART – A**

**Answer any FIVE of the following 5q X 2m = 10m**

1. What is atmosphere?
2. Define Normal Environmental Lapse rate.
3. Differentiate between weather and climate.
4. What is a ‘Cumulus cloud’?
5. Define ‘atmospheric aerosols’.
6. Define Meteorology.
7. What is Earth’s albedo?.

**PART – B**

**Write explanatory notes on any FOUR of the following 4q X 5m = 20m**

1. Artificial rainfall
2. Effects of NO2 and SO2 on human beings
3. Terrestrial radiation
4. Significance and threats to ozone layer
5. Atmospheric humidity
6. Koppen’s climate classification

**PART – C**

**Answer ALL the questions 2q X 10m = 20m**

1. Discuss the causes, effects and control measures of global warming.

**OR**

Write explanatory notes on causes and effects of tropical cyclones.

1. Explain the thermal stratification of the atmosphere.

**OR**

Write explanatory notes on Plume behaviour.

----END----