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SECOND YEAR (B.Sc.)
PHY24201: Atmospheric Physics
(Semester IV)

Program: B.Sc. (Gen 03)
Program Specific: S.Y.B.Sc. (General)
Course Type: Minor
Paper:

Credits: 2
Time: 2 Hours
Max. Marks: 30
SET: A

Instructions to the candidate:

- 1) All questions are compulsory.
- 2) Figures to the right indicate full marks.
- 3) Draw a well labelled diagram wherever necessary.
- 4) Use of Scientific Calculator and Log table is allowed.

Q1) Answer the following

[5 X 1= 5]

- a) What is the origin of noble gases?
- b) Define isobaric atmosphere.
- c) What is the percentage of oxygen in atmosphere?
- d) Define meteorology.
- e) Which is the principal agency in India responsible for weather forecasting and meteorology?

Q2) Answer the following (Attempt any 5/7)

[5 X 2 =10]

- a) State different components of atmosphere.
- b) What is black body radiation?
- c) What is synoptic meteorology and climatology?
- d) State different types of weather conditions.
- e) What is thunderstorm?
- f) What is the function of ozone gas in atmosphere?
- g) Which gases are present in abundance in atmosphere? Give their percentage in atmosphere.

Q3) Answer the following/Write short notes on following (Attempt any 2/4)

[2 X 5 = 10]

- a) Explain greenhouse effect.
- b) Write a note on depletion of ozone layer.
- c) Write a note on weather maps.

d) Write a note on El Niño and La Niña.

Q4) Answer the following (Attempt any 1/2)

[5 X 1 = 5]

a) Write a note on role of water in atmosphere.

b) Write a note on structure of atmosphere.



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