

U.G. 3rd Semester Examination - 2021

ENVIRONMENTAL SCIENCE

[HONOURS]

Course Code : ENVS-H-CC-P-07

(Atmosphere and Global Climate Change)

[PRACTICAL]

Full Marks : 20

Time : 2 Hours

The figures in the right-hand margin indicate marks.

Answer any **two** of the following: $10 \times 2 = 20$

1. Explain wind rose diagram. What is its utility? Mention its types. Explain each type with neat sketches. $3+1+2+4=10$

2. a) Complete the following table by providing the standard information for the given meteorological parameters:

Meteorological parameters	S.I. units	Measuring instrument
1. Temperature		
2. Atmospheric pressure		
3. Wind direction		
4. Wind speed		
5. Rainfall		
6. Solar radiation		

[Turn over]

b) Explain the vertical profile of humidity and atmospheric pressure with illustration.

$6+4=10$

3. a) What do you mean by maximum mixing depth? How it can be obtained graphically? Explain with a neat sketch.

b) Write the working principle and application of the following:

i) Wet bulb thermometer

ii) Dry bulb thermometer

iii) Barograph

iv) Hygograph $(1+3)+6=10$

4. Write the working principle and application of any **two** of the following with illustration: $5+5=10$

a) Aneroid barometer

b) Maximum-minimum thermometer

c) Rain gauge
