

KATHMANDU UNIVERSITY
End Semester Examination
July/August, 2024

Level : B.Sc.
Year : III
Time : 2 hrs. 30mins.

09 AUG 2024

Course : ESEE 301
Semester : I
F. M. : 55

SECTION "C"

[3 Q. × 7 = 21 marks]

Attempt ANY THREE questions.

1. Define actual vapor pressure and relative humidity. Explain the relation between saturation vapor pressure and air temperature. [7]
2. What are the main differences between a raindrop and a cloud droplet? About how large can raindrops get and why can't they get further larger? [7]
3. Explain in details about the onset, withdrawal main braches of summer monsoon in Nepal. [7]
4. What influences the climate of Nepal? What are the main climatic types found in Nepal? Explain the main climatic issues of Nepal? [7]

SECTION "D"

5. Differentiate between any **FOUR** [4 Q. × 4 = 16]
 - a. Troposphere and Stratosphere
 - b. Continental Polar (cP) air mass and Maritime Polar (mP) air mass
 - c. Tropical wet climate (Ar) and Tropical monsoon climate (Am)
 - d. Cyclone and anticyclone
 - e. Cold front and warm front
6. Write short notes on any **FOUR** [4Q. × 3 = 12]
 - a. Desert climate (BW)
 - b. Tornado and water spout
 - c. Koppen's climate classification
 - d. Tropical depression
 - e. La Nina
7. Give reasons **WHY** [2 Q. × 3 = 6]
 - a. Milankovitch cycle is responsible for glaciations and inter-glaciations on the earth.
 - b. Wind deflects to the right of its path in the Northern Hemisphere.

24. Ceilometer

25. Inter Tropical Convergence Zone

26. High cloud

27. Anticyclone

28. Vapor pressure

29. Isobar

30. Cold air mass

