

B.Sc. Sem.-5 Examination

CC-304

Env. Science

March-2025

Time : 2-30 Hours]

[Max. Marks : 70

- Instructions:** (1) Draw figures where necessary.
 (2) Show question number against each answer.
 (3) Figures in right are marks.

Q.1 Write a note on evolution and development of Earth's atmosphere. (14)

OR

Q.1(A) Write a detail note on greenhouse gases. (07)

Q.1(B) Explain the concept of El Nino and La Nina. (07)

Q.2 Write a note on meteorological parameters in detail. (14)

OR

Q.2(A) Explain in detail the chemistry of atmospheric particles and gases. (07)

Q.2(B) Write a note on hydroxyl and hydroperoxyl radicals in atmosphere. (07)

Q.3 What is global warming? Write a note on the potential of different GHGs causing climate change. (14)

OR

Q.3(A) Explain weather patterns in detail. (07)

Q.3(B) Write a note on agricultural productivity and biological responses. (07)

Q.4 Write a note on importance of ozone layer, ozone layer depletion and its causes. (14)

OR

Q.4(A) What are effects of ozone depletion? Write its mitigation measures and international protocols. (07)

Q.4(B) Explain in detail Kyoto protocol, 1997. (07)

Q.5 Answer any **seven** out of twelve. (14)

A. Define Gaussian plume model.

B. Full form of IOD and define.

C. Write down major GHG's.

D. What is photochemical smog?

E. What is the role of meteorology department?

F. Define what is global warming potential?

G. Define ground level ozone.

H. Name down major air pollutants.

I. Define ENSO and write its full form.

J. Give an example of acid-base reaction in atmosphere.

K. Give examples of effect on global warming on human health.

L. What is the Montreal protocol?