

B.Sc. 5th Semester (Honours) Examination, 2020 (CBCS)
Subject: Environmental Science
Paper: DSE 1
(Environmental Pollution & Monitoring Techniques)

Time: 3 Hours

Full Marks: 60

The figures in the margin indicate full marks.
Candidates are required to give their answers in their own words

1. Answer *any six* of the following: 5×6 = 30

- i) Write a note on Chernobyl Nuclear accident.
- ii) How does heavy metal enters in the aquatic food chain?
- iii) Distinguish between ionizing and non-ionizing radiation.
- iv) Write a short note on Bhopal Disaster.
- v) Describe the effects of mercury on croplands.
- vi) Briefly describe the categories of pesticides according to mode of action.
- vii) Distinguish between point and non-point sources of pollution.
- viii) Briefly describe the principle and application of gravimetry.

2. Answer *any three* of the following: 10×3 = 30

- i) Briefly describe the effects of radiation on human health and environment.
- ii) Discuss the environmental application of acoustic RADAR and LASER.
- iii) Briefly describe the different sources and effect of lead (Pb) on aquatic organisms.
- iv) Discuss the different steps of IPM.
- v) What is tritemetric end point? How does the water sample stores for a long time?

B.Sc. 5th Semester (Honours) Examination, 2020 (CBCS)

Subject: Environmental Science

Paper: DSE 1 (OR)

(Disaster Management)

Time: 3 Hours

Full Marks: 60

*The figures in the margin indicate full marks.
Candidates are required to give their answers in their own words*

1. Answer *any six* of the following: 5×6 = 30

- i) What are the different types of hazards depending upon their causes?
- ii) Distinguish between hazards and disaster.
- iii) What are the methods of characterization of risk?
- iv) How does technological disaster affect the human health?
- v) Distinguish between geological hazards and biological hazards.
- vi) Write down the five mitigation measures of land sliding.
- vii) Write a short note on consequences of earthquakes.
- viii) What are the functions of NDMA?

2. Answer *any three* of the following: 10×3 = 30

- i) Briefly describe the activities associated with various stages of disaster management cycle.
- ii) Discuss the control measures adopted to prevent geological disasters.
- iii) Describe the consequences of man-made degradation on environment.
- iv) Discuss the different types of problems associated with disposal systems of solid wastes and radioactive wastes.
- v) Briefly describe the role of Government and non-Government organizations on disaster mitigation.