

Total number of printed pages-2

53 (ES 101) ENSE

2021

ENVIRONMENTAL AND SAFETY ENGG.

Paper : ES 101

Full Marks : 100

Time : Three hours

The figures in the margin indicate full marks for the questions.

Answer **any five** questions.

1. (a) Explain the concept of ecological balance and its consequence of change. 10
(b) What is radiation of heat transfer? Describe the system of Earth's energy balance. 10
2. Discuss the various processes or steps of water treatment with layout of a water treatment plant. 20
3. (a) What are ozone depletion compounds? Discuss the process of ozone layer depletion and controlling measures. 10

Contd.

- (b) What are pesticides? Classify them. What are its effects on plants and animals? 10
4. Write short notes on : 5×4=20
- (a) Acid Rain
 - (b) Noise Pollution
 - (c) Global Warming
 - (d) BOD.
5. (a) Discuss *any three* devices that are used in industries to control particulate matter with figures. 10
- (b) What is Ecosystem? What are the different types of ecosystem? What are the different factors that affect the ecosystem and how? 10
6. (a) Define Criteria Pollutants. What are the differences between primary and secondary pollutant? Explain *any three* Criteria Pollutants with their effects on human. 10
- (b) Define Solid Wastes. Discuss in brief, the various methods of Solid Waste Disposal Systems. 10