

Total number of printed pages-2

53 (ES 101) ESEN

2019

**ENVIRONMENTAL AND
SAFETY ENGINEERING**

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 heat transfer? Describe the system of earth's energy balance. 10
2. (a) Discuss the causes and effects of solid wastes from Urban and Industrial areas. Provide remedial measures to control pollution from such wastes. 10

Contd.

- (b) Write about *any three* types of criteria pollutants. 10
3. (a) Write a note on global warming and suggest a few remedial measures. 10
- (b) Discuss three different methods that are used in industries to control particulate pollutants. 10
4. Discuss the various processes of water treatment with layout of a water treatment plant. 20
5. Write short notes on : 4×5=20
- (a) Sound Pollution
- (b) Acid Rain
- (c) Ozone Layer
- (d) Population Growth.
6. (a) Write about Carbon and Nitrogen cycle. 10
- (b) What are pesticides? Classify them. What are its effects on plants and animals? 10