

Total number of printed pages-2

53 (ES-101) ENSE

2018

**ENVIRONMENT 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 ten questions.

1. Describe the *three* broad classifications of environment. What do you mean by Environmental Engineering? 10
2. Discuss the various methods of solid waste disposal systems. 10
3. Write about carbon and nitrogen cycle. 10
4. Discuss *three* devices that are used in industries to control particulate pollutants. 10

Contd.

5. Write about water treatment system. Explain *any three* steps with suitable diagram. 10
6. What are ozone depletion compounds? Discuss the process of ozone layer depletion and controlling measures. 10
7. What are pesticides? Classify them. What are its effects on plants and animals? 10
8. Define Criteria Pollutant. Explain *any three* criteria pollutants in details. 10
9. Write about atmospheric composition and different methods of heat transfer. 10
10. What are major components of an ecosystem? Discuss about the structural and functional components of an ecosystem. 10
11. Write short notes on : $4 \times 2.5 = 10$
- (a) Acid Rain
 - (b) Noise Pollution
 - (c) Global Warming
 - (d) BOD.