

Total number of printed pages-3

53 (ES 101) ESEN

2016

**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. What are different kinds of solid waste ?  
Explain in details different methods of solid  
waste management. 20
2. (a) Define noise and its effects. Classify  
the noise pollution. 10

Contd.

- (b) Write about different control measures for air quality. 10
3. Write about water treatment system, explaining every step with suitable diagram. 20
4. (a) Write about different types of criteria pollutants. 10
- (b) Define green-house effect. Explain its impact on global climate. 10
5. (a) Write about atmospheric composition and different methods of heat transfer. 10
- (b) Define acid rain. Describe about the causes and effects of acid rain. 10

6. Write short notes on :

5×4=20

(a) Carbon Cycle

(b) Nitrogen Cycle

(c) BOD

(d) COD

(e) Resource.