

Total number of printed pages-2

53 (ES 101) ESEN

2019

**ENVIRONMENTAL & 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. Write short notes on : 5×4=20
 - (a) Temperature Inversion
 - (b) Cyclone Separator
 - (c) Catalytic Converter
 - (d) Primary and Secondary Pollutants.

2. (a) What is resource? Give the classification of resources with examples. What are the advantages and disadvantages of renewable resources ?
10

Contd.

- (b) What are Criteria pollutants? Write about *any three* of them. 10
3. (a) Describe three broad classifications of environment. What do you mean by Environmental Engineering? 10
- (b) Explain the impact of Global Warming on environment. 10
4. What are the different kinds of solid waste? Explain in details, the different methods of Solid Waste Management. 20
5. Write about Water treatment system, explaining every step with suitable diagram. 20
6. (a) Describe Nitrogen and Carbon cycles in details. 10
- (b) Why is Environmental Impact Assessment (EIA) for an engineering project important? Describe the different stages of an EIA study. 10

