



SF-8319

B. E. III (Sem. VI) (Chem.) Examination
May / June – 2011
Pollution Control & Safety Management

Time : 3 Hours]

[Total Marks : 100

Instructions :

(1)

नीचे दृष्टावेक निशानीवाणी विगतो उत्तरवडी पर अवश्य लपवी.
Fillup strictly the details of signs on your answer book.

Name of the Examination :
B. E. 3 (Sem. 6) (Chem.)

Name of the Subject :
Pollution Control & Safety Management

Subject Code No. : 8 3 1 9 Section No. (1, 2,.....): Nil

Seat No. :

Student's Signature

- (2) Figures to the right indicate full marks.
(3) Draw neat sketches wherever required.
(4) Assume suitable data if necessary.

- 1 (a) Answer the followings : **2×5=10**
(i) What is EIA and EIS ?
(ii) Enlist the different control techniques for air pollutants.
(iii) What are the environmental pollution in general and in chemical industry ?
(iv) What is pollution prevention ?
(v) Write down the labour limits in brief.
(b) Write a short note on natural cycle. **8×1=8**
- 2 Attempt any **two** : **8×2=16**
(a) Write down the sources, causes and effects of air pollution.
(b) Write down the methodologies for pollution prevention.
(c) Write a short note on Air Act.
- 3 Attempt any **two** : **8×2=16**
(a) Write a short note on solid waste treatment.
(b) Explain environmental audit in detail.
(c) Explain the Industrial Dispute Act and Workmen Compensation Act.

- 4 Attempt the following : **16**
- (a) What is Safety Management ? Explain rules and regulation for Safety Management in Industry.
 - (b) List out various Hazard identification techniques and explain Hazop in brief with its importances.
- 5 Attempt any **two** : **16**
- (a) Explain difference between Fire and Explosion in brief with various points involve in prevention of fire.
 - (b) List out various safety devices. Explain pressure safety valve with neat sketch.
 - (c) List out various types of explosion and explain each in brief.
- 6 Answer the following : (any **three**) **18**
- (a) Explain about various Personal Protective Equipments in brief.
 - (b) Explain various types of “Plume” and “Puff” models of dispersion.
 - (c) Explain Fault Tree Analysis.
 - (d) Explain Event Tree Analysis.
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