

QP Code : 08584

(2 ½ Hours)

[Total Marks : 60

- N.B :** (1) All questions are **compulsory**.
(2) All questions carry **equal** marks.
(3) **Draw** neat, labelled diagrams wherever **necessary**.

1. Answer any **two** of the following questions.
- (a) Describe illumination as a physical stress factor. 6
 - (b) Explain the role of ACGIH and OSHA in regulation of industrial hygiene and chemical safety measures. 6
 - (c) What are airborne chemicals? Explain the chemical stress conditions developed by any three air borne chemicals. 6
2. Answer any **two** of the following :—
- (a) Describe the protocol for sampling of the airborne contaminants. 6 *American conference Government industrial hygiene*
 - (b) What are notifiable diseases? Describe the sources, modes of entry and symptoms of silicosis. 6
 - (c) Describe hierarchy of work environment control measures. 6
3. Answer any **two** of the following :—
- (a) What are natural hazards? Write a note on drought as a natural hazard. 6
 - (b) Describe different types of industrial hazards. 6
 - (c) Describe PHA and HAZOP as the techniques of hazard assessment. 6
4. Answer any **two** of the following :—
- (a) Write a note on the procedure of safety audit in chemical industry. 6
 - (b) Explain the colour coding and safety in pipeline. 6
 - (c) Write a note on quality control for protective equipments. 6
5. Write short notes on any **four** of the following :— 12
- (a) Time Weighted Average (TWA)
 - (b) Bagassosis
 - (c) Report Writing of safety Audit
 - (d) Volcanic activity
 - (e) Safety precautions for transportation of hazardous chemicals.
 - (f) Face and Eye protection.
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VS-Con.:4098-14.