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T.E (Civil) Semester-V (Revised Course 2019-20)

EXAMINATION FEBRUARY 2022

Occupational Safety And Health

[Duration : Three Hours]

[Total Marks : 100]

Instructions:-

- 1) Marks are indicated to the right side of the question.
- 2) Answer any two questions from Part-A, any two from Part-B and Any one from part-C.
- 3) Supplement your answers with neat sketches wherever required.
- 4) Assume any missing data if you feel relevant, may be suitably assumed and stated clearly

Part - A

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|-----|---|----|
| Q.1 | a. Outline the purpose of occupational safety and Health act of India. | 10 |
| | b. Briefly discuss the methods adopted for acquiring accident facts. | 10 |
| Q.2 | a. Define cold stress. How can cold stresses be prevented at work place. | 10 |
| | b. What are the adverse effects of short term and long term exposures to Hazards on human body? Suggest some preventive and control measures. | 10 |
| Q.3 | a. Define Noise. What are the various engineering and administrative controls which can be undertaken to prevent Noise hazard? | 10 |
| | b. Write short note on | 10 |
| | i) Workmen's compensation Acts and Rules | |
| | ii) Right to know Laws | |

Part - B

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| Q.4 | a. Explain Hazard and operability method of hazard analysis. | 10 |
| | b. Explain the role of trade union in safety, health and environment protection | 10 |
| Q.5 | a. Explain the different safety precautions needs to be undertaken during shuttering work on construction site. | 10 |
| | b. What do you understand by on-site emergency preparedness? State and explain the main objectives of on-site emergency management plan. | 10 |

- Q.6 a. State and Explain different types of Non-Respiratory protective equipment. 10
- b. Describe the various measures which can be undertaken by an employer for the safety of its employee. 10

Part - C

- Q.7 a. Explain the most common causes for Injury at workplace. 10
- b. State and explain the factors that contribute to heat burn injuries at the workplace. 10
- Q.8 a. State and Explain the measure to be undertaken on construction site for the prevention of formwork failures. 10
- b. What are the adverse health effects of biological hazards at the workplace? 10