

Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

B.Tech Degree S7 (R,S) (FT) (S5 PT) Examination November 2025 (2019 Scheme).

Course Code: CET455**Course Name: ENVIRONMENTAL HEALTH AND SAFETY****Max. Marks: 100****Duration: 3 Hours****PART A***Answer all questions, each carries 3 marks.*

Marks

- | | | |
|----|---|-----|
| 1 | Discuss various safety measures to be adopted in chemical industry. | (3) |
| 2 | Write note on any two musculoskeletal diseases. | (3) |
| 3 | Differentiate fumes and fog | (3) |
| 4 | Discuss the effects of chemical hazardous agents on human health. | (3) |
| 5 | Enlist the hazards associated with improper use of scaffolds | (3) |
| 6 | Differentiate between ionizing and non-ionizing radiation. | (3) |
| 7 | Write note on ozone layer depletion. | (3) |
| 8 | Explain the effects of air pollution on materials | (3) |
| 9 | Describe methods for water pollution control | (3) |
| 10 | Discuss on how individuals can contribute towards the conservation of natural resources | (3) |

PART B*Answer any one full question from each module, each carries 14 marks.***Module I**

- | | | |
|----|--|-----|
| 11 | a) Explain the various types of silicosis stating symptoms of each. | (9) |
| | b) List out any ten arrangements to be made by organizations to ensure safety and well-being of workers. | (5) |

OR

- | | | |
|----|---|-----|
| 12 | a) Describe Toxicological investigation | (6) |
| | b) Write note on health hazards and safety measures to be adopted in a) petroleum industry b) chemical industry | (8) |

Module II

- 13 a) Explain various preventive and control measures against biological hazards. (8)
b) Write note on methods for controlling noise pollution. (6)

OR

- 14 a) What are the different hazards caused due to dust and gases. Also list out various control measures to be adopted against hazards caused due to dust and gases. (14)

Module III

- 15 a) Describe the essential elements of PPE to be used by workers in the cutting and welding industry. (10)
b) What are the various work practices to be adopted to avoid electrical hazards in work site? (4)

OR

- 16 a) Explain any five radioactive waste disposal methods. (10)
b) List out the measures to be adopted in concrete industry to ensure safety of workers. (4)

Module IV

- 17 a) Describe different types of water pollutants. Discuss the effects of polluted water on human health (10)
b) Explain the characteristics of municipal solid waste. (4)

OR

- 18 a) Write note on clean coal technologies. Explain any four. (14)

Module V

- 19 a) Describe the purpose and benefits of safety inspection. (6)
b) Explain how CPR is performed. (8)

OR

- 20 a) What are the different types of PPEs used in industries to ensure safety. (14)
