

Register No.: ..... Name: .....

## SAINTGITS COLLEGE OF ENGINEERING (AUTONOMOUS)

(AFFILIATED TO APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY, THIRUVANANTHAPURAM)

**SEVENTH SEMESTER B.TECH DEGREE EXAMINATION (S), FEBRUARY 2024**

**(2020 SCHEME)**

**Course Code: 20CET453**

**Course Name: Environmental Health and Safety**

**Max. Marks: 100**

**Duration: 3 Hours**

### **PART A**

***(Answer all questions. Each question carries 3 marks)***

1. Enlist the objectives of occupational health.
2. Explain industrial hygiene.
3. Explain the routes of entry of chemicals into the body.
4. Illustrate the information contained in Material Safety Data Sheet.
5. Summarize the precautions to be taken while working at height.
6. Summarize various hazards related with excavation work.
7. Explain various causes of air pollution.
8. Describe photochemical smog.
9. Explain role of an individual in prevention of pollution.
10. Comment on the use of PPE in work places.

### **PART B**

***(Answer one full question from each module, each question carries 14marks)***

#### **MODULE I**

11. Explain types, symptoms, causes, diagnosis, preventive measures and treatment of musculoskeletal disorders. (14)

**OR**

12. Explain preventive measures of various occupational diseases. (14)

#### **MODULE II**

13. Discuss biological hazards . (14)

**OR**

14. Discuss effects of noise, noise exposure regulation and control. Also discuss types of noise-induced hearing loss. (14)

**MODULE III**

15. Elaborate on nuclear waste, its management and disposal methods. (14)

**OR**

16. Explain radiation hazards. (14)

**MODULE IV**

17. Discuss classification, characteristics, health hazards, recycling and reusing of hazardous wastes. (14)

**OR**

18. Discuss the sources of air pollution, major air pollutants and effect of air pollution on human beings. (14)

**MODULE V**

19. Describe the preventive measures for controlling air, water and solid waste pollution. (14)

**OR**

20. Discuss the role of an individual in conservation of various natural resources. (14)

\*\*\*\*\*