

1127

B. Voc. (Food Processing and Preservation)

Third Semester

BFP-301: Industrial Safety Hazards – I (OLD)

Time allowed: 3 Hours

Max. Marks: 60

NOTE: Attempt five questions in all, including Question No. 1 which is compulsory and selecting one question from each Unit.

X-X-X

I. Write a brief note the following:-

- a) Toxicology and exposure time
- b) Three essential components of fire
- c) Flash point and flammability
- d) Safety valves.

UNIT – I

- II. Discuss the origin of process hazards. Describe various standards that are set to prioritize industrial safety. (12)
- III. Examine various properties of chemicals commonly found in industrial set ups. What are various health hazards associated with these chemicals? (12)

UNIT – III

- IV. Define material safety data sheets. What is the importance of such sheets in industrial safety? (12)
- V. Define threshold values. Explain the effect of dose and exposure time in case of toxic materials. (12)

UNIT – IV

- VI. Describe some common causes of fire and explosion. What preventive methods can be considered to avoid various classes of fire? (12)
- VII. Discuss the concept of ration of process plant. How plant safety management operations are carried on in case of fire hazards? (12)

UNIT – V

- VIII. How does fire propagation take place? How do environmental factors contribute to propagation of fire? (12)
- IX. Describe safety and relief valves in detail. Discuss their roles in fire control. (12)

X-X-X