

P. P. SAVANI UNIVERSITY

First Semester of B.Sc. Fire & Safety Examination

December -2022

SSFS1070-Elementary Health and Safety

15.12.2022, Thursday Time: 09:00 a.m. to 11:30 a.m. Maximum Marks: 60

Instructions:

1. The question paper comprises of two sections.
2. Section I and II must be attempted in separate answer sheets.
3. Make suitable assumptions and draw neat figures wherever required.
4. Use of scientific calculator is allowed.

Section-I (Total Marks - 30)

Q.1 Short Questions [10]

1.1 Objectives(10MCQ Compulsory-0.5 mark each) [05]

1.1a Which one is the personal safety?

- A Clean the machine
- B Keep your concentration to the work
- C Floor clean
- D Keep the tool at tool box

1.1b Which is the immediate lifesaving procedure?

- A First aid
- B Call doctor
- C Hospital care
- D Medical treatment

1.1c Which come under mechanical hazard?

- A Noise
- B Toxic
- C Unskilled
- D Unguarded machinery

1.1d How to stop bleeding of injured person?

- A Tie bandage
- B Apply ointment
- C Apply antiseptic on wound
- D Apply palm of hand pressure over wound

1.1e What is the period referred as golden hours?

- A First 30 min after incident
- B First 40 min after incident
- C First 50 min after incident
- D None of this

1.1f What is the first step to avoid accident in workplace?

- A Wear PPE
- B Alone work
- C Observe unsafe act and unsafe condition
- D None of this

1.1g In ABC of first aid, "A" denotes

- A Airway
- B attention
- C arresting
- D atmosphere

1.1h Which of the following injury is common in gas welding?

- A Electric shock
- B burns
- C bleeding
- D None of this

1.1i Example of physical hazards

- A Toxic
- B vibration
- C virus
- D None of this

1.1j Which is the less expensive disposal method?

- A recycling
- B Land fills
- C Composting
- D Burning waste

1.2 Answer the Following: (Definition-1 mark each)

[05]

1.2a Safety

1.2b Accident

1.2c Hazard

1.2d Risk

1.2e Harm

Q.2 Short Notes (Attempt any two-3 mark each)

[06]

A Write down the importance of safety.

B What is the function of safety management.

C Define the types of ventilation.

Q.3 Explain in detail (Attempt any two-7 mark each)

[14]

A Explain the Concept of safety and there Need, nature & importance of safety.

B Explain about an accidents due to bad housekeeping.

C Write down plant safety rules and regulation.

Section-II (Total Marks - 30)

Q.1 Short Questions [10]

1.1 Objectives(10MCQ Compulsory-0.5 mark each) [05]

1.1a Which of the following is NOT the cause of electric fire?

- A Open doors
- B Electric shock circuit
- C Loose connection
- D None of this

1.1b Benefits of maintenance

- A Improve productivity
- B Reduce scrape
- C both
- D None of this

1.1c Purpose of lockout tag out

- A Improve productivity
- B Isolate energy
- C Stop work
- D None of this

1.1d Purpose of CPR

- A Recover & Maintain body oxygen & blood circulation
- B Stabilized body temperature
- C Both
- D None of this

1.1e Common sign of heart attack

- A Chest pain
- B Spine pain
- C Stomach pain
- D None of this

1.1f Heat stroke indicate

- A Hot and dry skin
- B vomiting
- C Stomach pain
- D None of this

1.1g Electric shock on human body depends upon

- A Line voltage
- B Line current
- C Current flowing through the body
- D None of this

1.1h Which of the following Ladder safest of electrical work?

- A wooden
- B fiber
- C both
- D None of this

1.1i Which of the following gloves is used better grip & protection from heat

- A fabric
- B rubber
- C leather
- D aluminum

1.1j LOTO stands for

- A Lock out tag out
- B Lock out and throw out
- C Both
- D None of this

1.2 Answer the Following: (Definition-1 mark each)

1.2a House keeping

1.2b Ventilation

1.2c Direct cost of accident

1.2d Indirect cost of accident

1.2e Safety policy

[05]

Q.2 Short Notes (Attempt any two-3 mark each)

- A Write down the Key elements of a health & safety management system.
- B Write down the Importance of health & safety policy.
- C Write down the Control measures for Heat exposure in the industries.

[06]

Q.3 Explain in detail (Attempt any two-7 mark each)

- A Explain the Principles of control & hierarchy of risk reduction measure.
- B Explain the Reasons behind for the maintaining ,promoting good standards of health & safety in workplace.
- C Write the control measures while working at height.

[14]