

P. P. SAVANI UNIVERSITY

First Semester of Diploma fire & safety Examination
December-2022

SSDFS1030-Industrial safety

07.12.2022 Wednesday

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 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) [05]

- 1.2a** First aid
- 1.2b** Occupational safety
- 1.2c** Occupational health
- 1.2d** Need of first aid
- 1.2e** OSHA

Q.2 Short Notes (Attempt any two-3 mark each) [06]

- A** Describe occupational health & safety.
- B** Describe process safety management.
- C** Write down the treatment for burn and electrical injuries.

Q.3 Explain in detail (Attempt any two-7 mark each) [14]

- A** Explain safety management in workplace.
- B** Describe emergency planning.
- C** Write down duties of safety officer

Section-II (Total Marks - 30)

Q.1 Short Questions [10]

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

1.1a What violation are most commonly cited by osha?

- A Hazard communication
- B scaffolding
- C Fall protection
- D Respiratory protection

1.1b Rubber insulate gloves need to tested?

- A Every six month
- B Once week
- C Once month
- D In every use

1.1c Which is not the Safest ladder to use around electricity is

- A Wood
- B Aluminum
- C Step ladder
- D fiber

1.1d Which class of helmet provide electrical protection at high voltage?

- A Class A
- B Class B
- C Both
- D None of the above

1.1e You should wear PPES if you are working on

- A AG grinder
- B Electrical tools
- C Pneumatic tools
- D All above

1.1f Hydraulic jack exposed to freezing temperature must

- A Filled antifreeze liquid
- B To be warm
- C both
- D None of this

1.1g if you want to convey most severe hazard, which word should be?

- A Warning
- B Danger
- C Caution
- D Notice

1.1h H2s immediate danger to the life at what level?

- A 10 ppm
- B 50 ppm
- C 100 ppm
- D 500 ppm

1.1i Industrial safety concern with _____ hazards from industries.

- A Reducing
- B Controlling
- C Elimination
- D All of the above

1.1j The following is indirect cost of accident

- A Compensation
- B Medical treatment cost
- C Cost of production and loss of time of worker
- D All of the above

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

[05]

1.2a Emergency planning

1.2b Safety survey

1.2c Safety committee

1.2d Accident investigation

1.2e Safety management system

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

[06]

A Explain safety committee.

B Write down accident prevention methods.

C Describe factories act 1948

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

[14]

A Describe safety inventory system.

B Explain occupational health hazards.

C Write down why safety is important to us?