

P. P. SAVANI UNIVERSITY

First Semester of B.Sc. Examination

Feb.-March-2020

SSFS1070-Elementary Health and Safety

02.03.2020, Monday

Time: 12:30 p.m. to 03:00 p.m.

Maximum Marks: 60

Section-A

Q.1 Very Short Questions (attempt all questions) (10)

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

1.1a Check list for job safety analysis (JSA) consists of

- A Work area, material, machine, tools
- B Men, machine, material, tools
- C Men, machine, work area, tools
- D Men, work area, material, tools

1.1b Which of the following color is used for radiation hazard?

- A Red
- B Orange
- C Green
- D Purple

1.1c The primary goal of occupational health is about

- A Protecting the safety, health and welfare of people engaged in work
- B Protecting co-workers, family members employee's public who are influence by the work place environment
- C Protecting the natural environment
- D Protect the property

1.1d An accident is

- A An unsafe act
- B An unsafe condition
- C Unplanned, something that happens by chance
- D None of above

1.1e The three legs of the fire triangle are

- A Heat, gas and fuel
- B Open flames hot surface and overheating
- C Fuel, oxygen and heat
- D None of above

1.1f The first stop in staying safe is

- A Avoid any work that may be dangerous
- B Learning to spot a hazard before and incident happens
- C Sticking to safe jobs
- D Letting other workers handle the dangerous stuff

1.1g What is prevention?

- A Taking precaution to prevent or reduce risks
- B Investigating accident and incidents
- C Supervising safety at work
- D None of above

1.1h How can a hazardous substance get directly into the blood?

- A Via the breaking
- B Via the mouth
- C Via an open wound
- D None of the above

1.1i In what direction do you evacuate in case of fire

- A With the wind
- B Across the wind direction
- C Against the wind
- D None of the above

1.1j What shape does a warning sign have?

- A Round
- B Triangular
- C Rectangular
- D All of the above

1.2 Five Questions (Definitions-1 mark each)

1.2a Unsafe condition

1.2b Unsafe act

1.2c Danger

1.2d Near miss

1.2e Injury

Q.2 Short Notes (attempt any two- 3 marks each)

06

A Explain the old concept of safety

B Working at height

C Discuss about fall accident and precaution

Q.3 Explain in detail (attempt any two-7 marks each)

14

A State how perception plays role in accident prevention

B Key element of a health & safety management system

C Briefly explain concept of 5's

Section-B

Q.1 Very Short Questions (attempt all questions)

(10)

1.1 Objectives (10 MCQ Compulsory-0.5 mark each)

05

- 1.1a What colors are used a sing for fire-fighting equipment?
- A Black pictogram on a yellow background
 - B White pictogram on a green background
 - C White pictogram on red background
 - D None of the above
- 1.1b May you use alcohol or drugs during your work?
- A Yes, if you inform your employer when use
 - B No, never
 - C Yes, if it only happens occasionally on you do not use to much
 - D All of the above
- 1.1c Which are is the personnel safety?
- A Keep the machine clean
 - B Concentrate on your work
 - C Keep the gone way and floor clean
 - D Keep the tools at their proper place
- 1.1d Which is the immediate life-saving procedure?
- A First aid
 - B Call a doctor
 - C Intensive care
 - D Medical treatment
- 1.1e How to stop bleeding of insured person?
- A Tie bandage
 - B Apply wound
 - C Apply tincture over the wound
 - D Apply pressure over the wound
- 1.1f What is the period referred as golden hours?
- A First 30 min after incident
 - B First 30 minutes after first aid
 - C First 45 minutes of admission
 - D First 60 minutes after treatment
- 1.1g What is the first step of avoiding accident in work place?
- A By wearing safety equipment
 - B Doing thing in one's own way
 - C By observing safety precautions
 - D Doing working practice
- 1.1h How many employees does a company before risk assessment are recorded?
- A Between 5-10
 - B Between 10-20
 - C 5 or more
 - D Just one is needed

- 1.1i In which year was the health and safety at work act enacted?
- A 1947
 - B 1957
 - C 1974
 - D 1975

- 1.1j Who should report unsafe working practices at work?
- A Your supervisor only
 - B Your health and safety only
 - C Anyone who notices it
 - D Your line manager only

1.2 Five Questions (Definitions-1 mark each)

05

- 1.2a Management
- 1.2b Health
- 1.2c Attitude
- 1.2d Safety
- 1.2e Risk

Q.2 Short Notes (attempt any two- 3 marks each)

06

- A Explain in detail concept of safety in industry
- B Explain the unsafe condition and its example
- C Explain the typical accident due to bad housekeeping

Q.3 Explain in detail (attempt any two-7 marks each)

14

- A Briefly explain types of ventilation system
- B Explain in detail natural and mechanical ventilation
- C Describe the problem of industrial safety
