

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)

1.2a Management

1.2b Health

1.2c Attitude

1.2d Safety

1.2e Risk

05

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

- 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

06

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

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

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