

P. P. SAVANI UNIVERSITY

Fifth Semester of B.Sc. Examination

Jan-2021

SSFS3030-Special Fire Hazard

07.01.2021, Thursday Time: 12:30 p.m. to 03:00 p.m. Maximum Marks: 60

Section-A (Total Marks - 30)

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

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

1.1a What are the three sections of the wing?

- A Center
- B Left wing
- C Right wing
- D All of the above

1.1b What airframe section consists of the horizontal and two vertical stabilizers

- A The empennage
- B The center section
- C The fuselage
- D The fuselage

1.1c How long after engine shutdown are A10 engine exhausts considered hazardous?

- A 5 minutes
- B 10 minutes
- C 15 minutes
- D 20 minutes

1.1d The basic fire theory says that a fire needs four main elements in order to start: heat, fuel, oxygen and _____?

- A Hydrogen sulfide
- B Carbon dioxide
- C A chain reaction
- D Benzene

1.1e Fire detection systems are the _____ line of defense in any fire protection program.

- A First
- B Second
- C Third
- D Last

1.1f _____ are one of the most dependable ways to fight a fire.

- A Work permits
- B Automatic sprinkler system
- C Fire escapes
- D Job safety analyses

1.1g Portable fire extinguishers should only be used for the _____ stage of a fire.

- A Beginning
- B End
- C Late
- D Middle

1.1h Fire _____ is based on the type of fuel used to feed a fire.

- A Detection
- B Classification
- C Prevention
- D Theory

1.1i Fire extinguishers are classified using the _____ classification system

- A Centers for disease control and prevention (CDC)
- B American national standards institute (ANSI)
- C Occupational safety and health administration (OSHA)
- D National fire protection association (NFPA)

- 1.1j Fire extinguisher have a short use period of about ____.
- A 8-15 second
 - B 1-2 minutes
 - C 2-3 hours
 - D 4-5 days
- 1.2 **Five Questions (Definitions-1 mark each)** 05
- 1.2a Aircraft
 - 1.2b Safety
 - 1.2c Fuel
 - 1.2d Risk
 - 1.2e Hazard
- Q.2 **Short Notes (attempt any two- 3 marks each)** 06
- A Explain the SEVESO
 - B Explain the airport fire hazard and its control
 - C How can fire protection and prevention
- Q.3 **Explain in detail (attempt any two-7 marks each)** 14
- A Explain COMAH
 - B Detail about fire fighting
 - C Explain in detail on-site emergency plan

Section-B (Total Marks - 30)

- Q.1 Very Short Questions (attempt all questions) (10)**
- 1.1 Objectives (10 MCQ Compulsory-0.5 mark each) 05**
- 1.1a** To extinguish a small fire, use the _____method.
- A PEC
 - B OSHA
 - C PASS
 - D FRC
- 1.1b** Your company must develop _____routes for different location in your facility
- A Emergency escape
 - B Elevator
 - C Vehicle
 - D Delivery
- 1.1c** Your main responsibility during an emergency is _____.
- A To rescue your co-worker
 - B To order an evacuation
 - C Shutting down equipment
 - D Self- rescue
- 1.1d** Probability of the event that might occur X severity of the event if it occurs=
- A Accident
 - B Hazard
 - C Risk
 - D None of the above
- 1.1e** Industrial safety management if that branch of management which is concerned with _____hazards from the industries.
- A Reducing
 - B Controlling
 - C Eliminating
 - D All of the above
- 1.1f** The following is indirect cost of accident
- A Money paid for treatment of worker
 - B Compensation paid to worker
 - C Cost of lost time injury worker
 - D All of the worker
- 1.1g** The following are physical hazard agent
- A Falls
 - B Electricity
 - C Inhalation
 - D All of the above
- 1.1h** Check list for job safety analysis((JSA) consist of
- A Work area, material, machine, tools
 - B Men, machine, material, tools
 - C Men, machine, work area, tools
 - D Men, work area, material, tool
- 1.1i** Housekeeping programmed consists of
- A Three S
 - B Four 'S
 - C Five S
 - D Six S
- 1.1j** For household wiring and small units, the following should be used for safety measure
- A MCB
 - B ACB
 - C OCB
 - D MCCB

- 1.2 Five Questions (Definitions-1 mark each)**
- 1.2a Onshore
- 1.2b Salvage
- 1.2c Disaster
- 1.2d Offshore
- 1.2e Accident

05

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

- A Detail about offshore platformed
- B Offsite emergency plan
- C Introduction about LNG

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

- A Explain in detail about onshore platform
- B What is triage? And what is principle categories
- C Explain the onshore platform

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