

P. P. SAVANI UNIVERSITY

Fourth Semester of B.Sc. fire & safety Examination

December -2022

SSFS2130-Fire Prevention and Protection

14.12.2022, 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

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

1.1a Read color band indicate the fire extinguisher [05]

- A Foam
- B Dry powder
- C water
- D Carbon dioxide

1.1b Safety indication represent

- A Can cause fire
- B Cause explosion
- C Item is poisonous
- D Contain irritants

1.1c In an scene of fire , everyone has a respond to

- A Raise fire alarm
- B Inform manager
- C Both
- D None of this

1.1d Lpg and cng are basically comes under

- A Class c
- B Class b
- C Class a
- D Class d

1.1e kitchen fire come under

- A Class a
- B Class k
- C Class c
- D Class e

1.1f Which of the following represent co2 extinguisher?
A Black
B White
C yellow
D Blue

1.1g In electrical fire which extinguisher should be used?
A CO2 type
B Water type
C DCP type
D None of this

1.1h Foam extinguisher color band
A Yellow
B black
C blue
D Red

1.1i Fencing the area called
A barricade
B Police station
C Fire station
D None of this

1.1j Wet chemicals are designed to tackle
A Kitchen fire
B Oil fire
C Both
D None of this

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

1.2a Health

1.2b Personal protective equipment

1.2c Machine guard

1.2d Types of machine

1.2e Inspection

[05]

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

A Explain measuring device for air velocity.

B Explain the permit to work system in industry.

C Explain physical hazards.

[06]

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

A Explain mechanical hazards and psychological hazards.

B Explain construction heavy equipment used in construction sites.

C Define the earth moving heavy equipment used in construction site.

[14]

Section-II (Total Marks - 30)

Q.1 Short Questions

[10]

1.1 Objectives(10MCQ Compulsory-0.5 mark each)

[05]

1.1a What type permit used in welding work

- A Hot work
- B Cold work
- C Both
- D None of this

1.1b After use CO2 extinguisher, nozzle get extremely cold may result

- A Cold burn
- B Hot burn
- C cut
- D None of this

1.1c Metal fire consider for

- A Class d
- B Class a
- C Class b
- D Class c

1.1d Raise the fire alarm

- A At the event to find the fire
- B Before you inform supervisors
- C Both
- D None of this

1.1e Color band for co2 extinguisher

- A Black
- B Blue
- C White
- D Red

1.1f When you see a fire on work site you should

- A Sound the alarm
- B Tell managers
- C Try to extinguish
- D None of this

1.1g Color band of DCP powder extinguisher

- A Blue
- B Black
- C White
- D yellow

1.1h Co2 nozzle extremely _____ after use

- A Cool
- B Hot
- C Both
- D None of this

1.1i Fire extinguisher used for electrical fire

- A Co2 type
- B DCP type
- C FOAM type
- D None of this

1.1j Propane gas comes under

- A Class c
- B Class b
- C Class a
- D None of this

1.2 Answer the Following: (Definition, true/false & fill in the blanks-1 mark each) [05]

1.2a Incident

1.2b Risk

1.2c Hazard

1.2d Near miss accident

1.2e First aid accident

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

[06]

A Explain the importance safety audit.

B Explain the need of safety training.

C explain the purpose safety inspection.

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

[14]

A Prepare an onsite emergency plan for construction site

B Explain the maintenance for equipment and machineries.

C Write down the control measures for hand tools.