

# P. P. SAVANI UNIVERSITY

Second Semester of B.Sc. Fire & Safety Examination  
December -2022

SSFS1130-Fire Fighting Equipment

29.12.2022, Thursday 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 Whenever a gas leakage is noticed, rectify it to prevent

- A Fire hazard
- B Low voltage
- C High voltage
- D High current

1.1b To be accident free, one must know safety \_\_\_\_\_ first

- A Rule
- B Procedure
- C Permit
- D None

1.1c Lubricant (oil, grease) never use over gas welding assembly

- A It may cause explosion
- B It is safe to use
- C It can use every time
- D None

1.1d Always keep fire extinguisher handy to area free from \_\_\_\_\_

- A Explosion
- B Fire
- C Electric shock
- D None

1.1e Flammable liquids such as

- A Gasoline, grease, paints
- B Water, fruit juice
- C Both
- D None



**1.1f** Which of the following represent foam extinguisher?

- A Cream
- B White
- C black
- D Blue

**1.1g** In electrical fire which extinguisher not used

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

**1.1h** Water extinguisher color band

- A red
- B black
- C blue
- D yellow

**1.1i** Area you secure 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 )**

[05]

**1.2a** Fire

**1.2b** Ignition temperature

**1.2c** Fire point

**1.2d** Flash point

**1.2e** Extinguisher

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

[06]

A Write down the classification of fire.

B Write down types of extinguisher.

C What are the type of operating the extinguisher

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

[14]

A Explain about water, powder and gas based fire extinguisher.

B Explain about B.A set.

C Describe valve and explain types of valve used in firefighting systems





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** AFFF

**1.2b** Active system

**1.2c** Passive system

**1.2d** Extinguisher

**1.2e** SCBA

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

- A** Write down about use and selection of valves.
- B** What is ladder? Write down types of ladder.
- C** Write down the advantage and disadvantage of valve.

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

- A** Explain the water tender .
- B** Explain the foam tender.
- C** Explain emergency rescue tender.