

# P. P. SAVANI UNIVERSITY

Second Semester of Diploma Fire & Safety Examination  
December-2022

SSDF1080- Fundamental of Fire Engineering

30.12.2022, Friday 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 What the role of class A extinguisher?

- A Used on combustible such's wood, paper.
- B Used on flammable liquids
- C Used on energized electrical fire
- D All of the above

1.1b What are the three factors that causes fire?

- A Fuel, heat, oxygen
- B Oxygen, fuel, nitrogen
- C Fuel , heat, argon
- D None

1.1c BCF stands for

- A Bromochlorodifluoro methane
- B Bromofluoro methane
- C Bromochloro methane
- D None

1.1d Fire extinguisher is \_\_\_\_\_ protection device

- A Active
- B Passive
- C Reactive
- D None

1.1e' Which class of fire involves in gaseous fire?

- A Class A
- B Class B
- C Class C
- D Class D



- 1.1f** Which type of fire extinguisher used for liquid fire?  
A Class b  
B Class a  
C Class d  
D Class c
- 1.1g** Which statement is incorrect about water extinguisher?  
A Used in class b fires  
B Used in class a fire  
C Both  
D None of this
- 1.1h** Which classes of fires are caused by flammable liquids such as petrol?  
A Class a  
B Class b  
C Both  
D None of this
- 1.1i** Which of the following is not caused by electrical fire?  
A Open door  
B Short circuit  
C Both  
D None of this
- 1.1j** What is the color for portable water type fire extinguisher  
A Red  
B yellow  
C Blue  
D None of this

**1.2 Answer the Following: (Definition-1 mark each ) [05]**

- 1.2a** Pump  
**1.2b** Primer  
**1.2c** Ventilation  
**1.2d** Maintenance  
**1.2e** House keeping

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

- A** Illustrate essential properties of pumps.  
**B** Write down types of pumps  
**C** Explain in brief about water ring primer and water seal primer

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

- A** Write down and explain types of ventilation  
**B** Explain testing and maintenance of ventilation system  
**C** Explain the cause of accident due to poor housekeeping.





**Section-II (Total Marks - 30)**

**Q.1 Short Questions**

**[10]**

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

**[05]**

**1.1a** DCP such as BC or ABC extinguisher should not be used on fire

- A Inflammable gas
- B Inflammable liquid
- C Combustible solid
- D Combustible metal

**1.1b** Flammable liquid having flash point 23 degree C And above but below 63 degree C

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

**1.1c** Chemical fuels are

- A Gaseous,liquid,solid
- B Only liquid
- C Both
- D None of this

**1.1d** Fire wind caused by

- A Fire depleting from atmosphere
- B Not receive oxygen from atmosphere
- C both
- D None of this

**1.1e** Every extinguisher installed in premises shall be

- A Hydraulically pressure tested
- B Non test required
- C Both
- D None of this

**1.1f** The extinguisher should tested

- A 6 month
- B 3 month
- C both
- D None of this



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