

**B.Sc (Sem-4) (F&S) Examination
CC****Fire Prevention & Protection
April 2022****Time : 2-00 Hours]****[Max. Marks : 50****General Instructions:**

1. This question paper contains TWO sections: Section – I and Section – II.
2. It is compulsory to attempt both the sections.
3. Read the instructions given for each section carefully.
4. Please mention clearly the questions you attempt.

Section – I. Attempt ANY THREE of the following questions:**42 Marks**

- Q.No.1a.what are the building materials used in a building ,how do they behave in fire ,discuss fire properties of Timber, bricks, RCC, glass
- Q.No.1b.Describe the role of fire officer in a petrochemical plant.
- Q.No2a. Mention types of safety appraisal and explain any two appraisal in details.
- Q.No.2b. Draw a plant safety inspection check list indicating main points and introduction of work permit system.
- Q.no3a.To obtain approval for storage of cylinders what are the documents to be submitted to Chief controller of expolsives.
- Q.No3b.What are the markings and labelling provided on gas cylinders.
- Q.no4a.Write down the definitions of foam tender, DCP tender, foam nurser, and list out general requirements and job requirements of fire personnel.
- Q.No4b.What are the various measures to control fire on fixed roof tanks and floating roof tanks.
- Q.No5a.What is compartmentation and explain stability, integrity and insulation property of building.

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Q.No5b. Write short notes on any 3 fire damper, duct, mortar, mastics, pressurization

Q.No6a. What is passive and active fire protection system explain segregation and separation methods,

Q.No6b. In how many ways heat can travel and what are the hazards of fire propagation.

Q.No7a. What is the meaning of policy, is fire insurance policy helpful, what are the perils covered and expenses covered in insurance.

Q.No7b. What are the perils and properties not covered in insurance, if we pay additional premium can we cover which of these perils.

Q.No8a. Give a list of documents required by insurer to lodge a claim.

Q.No8b. In how many categories fire loss management is formed in industry and write down the sequence of risk control in industry.

Section – II.MCQ :

08 Marks

1. Architect fee can be claimed up to 1%, 2%, 3%, 4%.

2. For removal of debris how much maximum can be claimed 1%, 2%, 3%, 4%.

3. Fire loss management has been divided in how many categories 2, 3, 4, 5

4. At which temperature moisture of timber is given off completely 70*c, 80*c, 90*c, 100*c

5. The melting point of pure aluminium is 620*c, 630*c, 660*c, 680*c

6. The property of wall where in temperature from inside to outside can not travel is integrity, insulation, stability, inclination

7. A 225 mm thick wall will give how much fire resistance 3hrs, 4hrs, 5hrs, 6hrs,

8. It is not the property of brick wall integrity, inclination, insulation, stability

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