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**2603N1121**

Candidate's Seat No : \_\_\_\_\_

**B.Sc. (F&S) Sem.-5 Examination**

**CC-1**

**Special Fire Hazards**

**March-2025**

**Time : 2-30 Hours]**

**[Max. Marks : 70**

Each question carries 07 marks:

Q.No1(a) Describe basic fire fighting strategy in high rise buildings and also explain on what factors it depends

Q.no1(b) In how many categories special fire hazard structure can be grouped and write 4 names in each category.

OR

Q.no1(a) What do you understand by 1) internal hazard 2) personal hazard 3) exposure hazard.

Q.No1(b) Explain any two of the following methods in case of high rise building fires

Control combustion process                      manage fire impact                      control by construction

Q.no2(a) Write down the parts of an aircraft and types of different materials used in construction of aircraft and explain fire property of Aluminium alloys and Magnesium and its Alloys

Q.no2(b) What is flammability limit of fuel, What are the different types of fuels used in aircraft, Why aviation fuels have high Octane numbers.

OR

Q.no2(a) Mention the fire hazards in airport terminal building and give the reasons why hangars are fire hazardous.

Q.no2(b) What is land side and air side fire hazard emergency, explain triage principle and how identification tag is helpful in timely medical care.

Q.No.3(a) what is the difference between off shore and on land platform. Write short notes on any 2

Hydrogen sulphide,              high pressure,              structural damage by collision

(P.T.O)

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Q.No3(b)What is group evacuation and personal evacuation, how many types of group evacuation methods are used. Explain launching of life raft by DLL (Davit Launchable Life raft)method.

OR

Q.No 3(a) What are the different methods used to transport workers to offshore platform and what is the most common method, while boarding the life boat what boarding procedure passengers should follow.

Q.No3(b)What do you understand by Abandonment from platform, Describe the construction and operation of life boat.

Q.No4(a)Describe with the help of schematic diagram the working of Thermal power plant.

Q.no4(b)How many types of conventional power plants are there ,explain the hydro electric power plant with the help of diagram.

OR

Q.No4(a)Write short note on any 2

Fire retardant cable, fire detection, fire protection for cable trays , boiler explosion.

Q.No4(b)Describe with the help of diagram working of nuclear power plant, and up to what stage it is similar to thermal power plant.

Q.No5.MCQ (14 Marks)

1, One mega watt is equal to how many watts

1000watts            100000 watts            1000000watts            10000000watts

2.uranium atoms pallets are coated with silicon, carbon, ceramic, magnesium

3.The coal in thermal plant is used in which form -----

4.In nuclear plant which reaction takes place fusion, fission, fraction, traction

5.In NFPA which is the code for fire alarm and signalling NFPA 70, NFPA 71, NFPA 72, NFPA73

6.Basement car parking comes under which category of special hazard structure

1, 2, 3, 4

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7. The HRU used in life raft is known as  
high pressure release unit, hydraulic release unit  
High release unit, hydraulic raft unit
8. The TLV for H<sub>2</sub>S gas is 5ppm, 10ppm, 15ppm, 20ppm
9. Which priority is given to serious injured person 1, 2, 3, 4
10. How much is the safety zone around off shore platform  
500 mtrs, 1000mtrs, 1500mtrs, 2000mtrs
11. Fireman should not approach nearer than how many feet from intake of engine  
20ft, 25ft, 30ft, 45ft
12. The area where aircraft goes for servicing is called  
tower, terminal, hangar, runway
13. Which animal is not used in tagging rabbit, tortoise, mouse, none of 3
14. This metal is easy to ignite aluminium, S S, Magnesium, Titanium