

B.Sc. (Fire & Safety) Sem.-5 Examination**CC 1****Special Fire Hazards****January 2021****Time : 2-00 Hours]****[Max. Marks : 50**

ATTEMPT ANY 3 sections FROM SECTION 1 TO 6. EACH QUESTION CARRIES 7 MARKS.

Section 1 a. what are the difficulties faced by fire brigade in extinguishing fire in tall buildings and what fire fighting features are provided in these buildings.

Section 1.b. what is abandonment .explain life boat and boarding procedure of life boat.

Section 2.a. Write short notes on any two of the following

Confined space, Electricity, work over side, hydrogen sulphide

Section 2.b. Write down objectives and principles of life safety.

Section 3a. In how many categories special hazard structure has been divided , write down 4 names of each category.

Section 3.b. What are the different methods used to transport off shore workers to platform and which is the most common mode. Write down materials used in construction of life boat.

Section 4.a. What are the materials used in construction of air craft and out of that describe use and properties of aluminium, and magnesium metals.

Section 4 b. What are the facilities / occupancies found in air terminal building which can pose hazards.

Section 5a. What is the difference between on shore and off shore platforms .Why off shore platforms are considered hazardous compared to on shore.

Section 5.b. How many types of life boats are used for a group evacuation and what is 3 s".

Section 6a. Based on fuel used in conventional power plants , in how many categories these plants are divided. Briefly describe Thermal power station with a schematic diagram.

Section 6b. Describe hydro electric power generation with the help of diagram and also mention advantages and disadvantages of hydro power.

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SECTION 7.MCQ.Carries one mark each.

1. Basement car parking comes under which category of special hazard structure
1, 2, 3, 4
 2. The HRU used in raft is known as
a. high pressure release unit, b. hydraulic release unit. C. high release unit d. hydraulic raft unit
 3. What is full form of L.B.C
a. local building class b. local building code c. life building code d. linear building code
 4. The T L V for H₂S gas is
a. 5ppm, b. 10ppm, c. 15ppm, d. 20ppm
 5. Fireman should not approach nearer than how many feet from the rear of aircraft .
a. 50ft, b. 75 ft. c. 100ft d. 150 ft
 6. Which priority is given to serious injury person for medical treatment
a. 1 b. 2 c. 3 d. 4
 7. Which type of coal is used in Thermal power plant
a. grit b. pulverized c. boulder d. bricks
 8. nuclear fuel used in Nuclear reactor in which form
a. rectangle b. pellet c. square d. cylindrical
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