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2111N782

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

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

CC 1

Special Fire Hazards

Time : 2-30 Hours]

November-2024

[Max. Marks : 70

Each question carries 07 marks:

Q.No1(a) Describe basic fire fighting strategy in high rise building and what are the challenges / difficulties encountered by fire crew while fighting fire.

Q.No1(b) In how many categories the special structure has been divided , give 4 names of structure in each group.

OR

Q.No1(a) Explain internal hazard, Personal hazard, and exposure hazard in case of high rise building.

Q.No1(b) Explain in details the Principle of life safety and its objectives.

Q.No.2(a) Write the names of parts of an aircraft , which one is the largest part, various material used in construction of an aircraft and explain the use of steel, aluminium alloy and titanium alloys

Q.No2(b) what are the types of fuels used in aircraft , What is flammability limit., what is Octane No. Explain AV Gas, AV Tag, AV Tur.

OR

Q.no2(a) What is Landside emergency and Airside emergency, full emergency, Use of Grid map.

Q.No2 (b) what are the precautions to be observed while rescue from civil air craft and how to approach aircraft when the engines are running.

Q.No.3(a) Write short note on any three chemical hazards, High pressure, Hydrogen sulphide, Structural damage by collision, confined space

Q.No3(b) What are the different methods used to transport workers to off shore platforms , which is most common way, and write down names only of 9 elements of personal responsibility for safety (prfs)

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N782-2

OR

Q.No3(a)What is abandonment,define group survival equipments and personal survival equipments and 2 names in each category.

Q.No3(b)write down the boarding procedure for the passengers to board the life boat.What is the meaning of 3 "S".

Q.No4(a)Howmany types of power generation stations are there,explain thermal power station, with the help of diagram,mention advantages and disadvantages of thermal power plant.

Q.No4(b).Describe hydro electric power station with the help of schematic diagram and advantages of hydro power station.

OR

Q.No4(a)Explain with the help of figure ,the working principal of nuclear power plant ,its advantages and disadvantages.

Q.No4 (b)Write short notes on any 2 flame retardant cables, fire detection, Boiler fire and explosion, contact with hazardous chemicals

Q.No5MCQ..Each question is of 1 mark .Attempt any 14 questions.

1.Priority 4 is applicable to which care immediate, delayed  
Minor, deceased,

2.when aircraft takes off the sound level is approximately  
60 to 70db, 70 to 90db, 100 to 110db, 120to 130db

3.The life boat should contain fuel for howmany hours of travel  
8hrs, 12hrs, 24 hrs, 48 hrs,

4.In Chernobyl Neuclear disaster took place in which year 1982, 1984,  
1986, 1988

5.In which form coal is used in thermal power plant  
chips, blocks, flakes, pulverized

N782-3

6. which is most environment polluting power generation plant

coal, hydro, nuclear, gas based,

7. which is most desirable strategy to minimise impact of electrical fire

detection, suppression, compartmentation, prevention

8. In nuclear power plant the radio active source goes under which reaction

fusion, fission, chemical, thermal

9. Which is not true in case of thermal power plant

running cost is less than hydro electric plant

coal is cheaper

it requires less space as compared to hydro electric plant

it pollutes the atmosphere.

10. Cinema building falls in which category of special hazard structure

cat1, cat 2, cat 3, cat 4

11. which NFPA code deals with life safety in high rise buildings

100, 101, 102, 103,

12. Involving aircraft accident the color of tag used for delayed care

red, yellow, black, brown

13. The area where air craft goes for servicing is called

Terminal, tower, runway, hangar.

14. This metal is easy to ignite

aluminium alloy, stainless steel, titanium alloy, none

15. The permissible limit of noise is 70db, 75db, 80db, 90db

16. Assembly bldg. falls in which category 1, 2, 3, 4

17. what is full form of D L L -----

18. In case of triage which color tag is used for minor care

red, yellow, green, black

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