

B.Sc. (F. & S.) Sem.-3 (Supple.) Examination**CC-202****Fire Protection System****October-2024****Time : 2-30 Hours]****[Max. Marks : 70**

All questions carries 7 marks.

Q.No1 (a)1. .Explain Fire triangle and extinguishing method.Explain active and passive fire protection system and give 4 names in each .

Q.No.1(b)2.Describe function of fire proof door and what do you understand by integrity, insulation and stability of fire doors.

OR

Q.No1.(a)1According to type of fuel and fire classification indicate list of suitable fire extinguishers ,why hydrotest of extinguishers is done.

Q.No1(b)2.What is hose reel hose ,why it is called 1st aid fire fighting appliance, Give its complete specification along with sketch

Q.No2(a).Briefly describe Hydrant system and write short note on Fire pump house and jockey pump.

Q.No.2(b). How many types of hydrant system are there for high rise buildings ,explain wet riser system and basic requirement of wet riser.

OR

Q.No2(a)1.Explain Radiographic test and electrical/ holiday test for under ground hydrant line.

Q.No2(b)Make a comparison between hydrant system and sprinkler system ,Why hydrant system is called mother of all the water based Systems, In how many categories hydrant system is divided.

Q.No3(a).how many types of sprinkler system are there ,explain wet sprinkler system and draw fig of pendant sprinkler head

Q.No.3(b)What is temperature rating of sprinkler bulb,how sprinkler works .Give temperature rating of yellow. red and green bulb.

OR

Q.No3(a)Describe working principle of wet alarm valve with the help of diagram.

Q.No3(b)Explain in details the working of water spray system, and its use .

(P.T.O)

Q.No.4(a).What are the most common types of Gaseous system ,write names. Explain in details Co2 total flooding system

Q.No4(b).What is Inergen system ,advantages and disadvantages of inergen.

OR

Q.No4(a).Explain total flooding system of DCP and its application.

Q.No4(b). What are the properties of FM 200 ,use of FM200.It is a replacement of which gas?

Q.No 5 MCQ attempt any 7

(14)

a.FM 200 requires how much concentration to extinguish fire.

5%, 6%, 7%, 10%,

b.In IG 541 gas the composition is

Nitrogen &argon, Nitrogen +Argon+ Co, Nitrogen +argon+Co2. None

c.FM 200 removes which energy to extinguish fire

fuel energy, heat energy, kinetic energy, potential energy

d.NFPA code for CO2 system is

code 12, code 13, code 14, code 15

e.NOVEC gas requires how much concentration to extinguish fire

1%, 2%, 3%, 4%,

f.Which one is incorrect for CO2 gas

conductor of electricity, clean agent, non environment friendly, heavier than air

g.The dia of wet riser should be 150mm in case of highrise bldgs. having height more than

22mtrs, 23mtrs, 24 mtrs 25mtrs

h.In fire bucket water we mix the following to prevent mosquitoes breeding

vinyl, ethyl, phenyl, methyl

i.The hose reel hose confirms to which IS code

884, 885, 886, 888

j.Maximum weight of fire blanket shall be

5kg, 7kg, 10kg, 12 kg.