

B.Sc. Sem.-2 (Fire & Safety) Examination
CC-202

Fire Fighting Equipments

May-2024

Time : 2-30 Hours]

[Max. Marks : 70

Q.1 (a) Write down the advantages and disadvantages of foam based and gas based fire fighting system? 7 Marks

Q.1 (b) List specifications of H₂O (CO₂ cartridge) type fire extinguisher? 7 Marks

OR

Q.1 (a) Write down advantages of DCP fire extinguisher with figure? 7 Marks

Q.1 (b) Write down short note on mechanical and chemical foam? 7 Marks

Q.2(a) Draw the classification chart of fire fighting system which based on mode of operation? 7 Marks

Q.2(b) Write down uses, advantages, and disadvantages of gate valve, ball valve, butterfly valve Foot valve? 7 Marks

OR

Q.2(a) Write down detail short note on Aluminum extension ladder with figure? 7 Marks

Q.2(b) Explain the SCBA with figure? 7 Marks

Q.3(a) Explain water tank and foam tank which are located in fire tender? 7 Marks

Q.3 (b) Explain foam pump and water pump? 7 Marks

OR

Q.3 (a) Explain the Power take off (PTO) in fire tender? 7 Marks

Q.3 (b) Give brief note on Nitrogen cylinder which is located in DCP fire tender? 7 Marks

Q.4 (a) Define Delivery hose and explain its types? 7 Marks

Q.4 (b) Write down factors which are influencing valve selection? 7 Marks

OR

Q.4 (a) List out the names of fire fighting branch and give brief introduction of each fire fighting branch 7 Marks

Q.4 (b) Write down care and maintenance of hoses? 7 Marks

P.T.O

Q.5 each question contains one mark each.

- I. Huck ladder weight _____.
 - II. Soda aside extinguisher IS code _____.
 - III. Full form of D.S.U (related with B.A set) _____.
 - IV. Write down works of lungs demand valve in B.A set?
 - V. Delivery hose IS code _____.
 - VI. What is the pressure of Nitrogen cylinder?
 - VII. Fully length extension _____ of aluminum escape ladder?
 - VIII. IS code of Nylon type Hose bandage is _____.
 - IX. Why we need reducing valve in BA set?
 - X. What is the color of mechanical foam extinguisher?
 - XI. How many male and female coupling are there in delivery breeching?
 - XII. Full foam of P.T.W?
 - XIII. Hose reel hose IS code _____.
 - XIV. Suction hose IS code _____.
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