

24865

B. Tech. 7th Semester (Fire Tech. & Safety) F. Scheme  
Examination, December- 2017

FIRE FIGHTING INSTALLATION & AUTOMATION

Paper- FT-409 F

Time allowed : 3 hours ]

[Maximum marks : 100

*Note : Question No. 1 is compulsory. Attempt any five questions in total. One question must be attempted from each section.*

1. (a) What do you mean by dry-riser ?
  - (b) Explain the function of the sprinkler.
  - (c) Differentiate between medium expansion and high expansion Foam.
  - (d) Explain the function of the CO<sub>2</sub> Fire Extinguisher.
- 4×5=20

**Section-A**

2. Explain the following term :
  - (a) External Hydrant
  - (b) Provision of first aid. 10,10
3. What do you mean by the following ?
  - (a) Rising Main
  - (b) Wet Riser 10,10

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**Section-B**

4. Explain the designing procedure of the HVWSS sprinkler system. 20
5. What do you mean by Hydrant system and drencher head? 20

**Section-C**

6. What do you mean by Foam ? Explain with their types, application, characteristic advantage and disadvantage. 20
7. (a) Discuss the risk when we use the foam.  
(b) How will you determine the foam compound for the fire fighting in an oil tank ? 10×2=20

**Section-D**

8. Explain the working principle, testing and maintenance of the smoke detector and Heat Detector. 20
9. Explain the installation of Dry Powder with their special feature, characteristic designing, operation and extinguishing action. 20