

P73/FSM104/EE/20160522

Time : 3 Hours

Marks : 80

Instructions :

1. All Questions are Compulsory.
 2. Each Sub-question carry 5 marks.
 3. Each Sub-question should be answered between 75 to 100 words. Write every questions answer on separate page.
 4. Question paper of 80 Marks, it will be converted in to your programme structure marks.
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1. Solve any **four** sub-questions.
 - a) Write material used in construction of Building and explain one of them. 5
 - b) Write behaviour of Load bearing wall in fire depend. 5
 - c) Explain the fire test of elements of building using Time Temperature Curve. 5
 - d) What do you understand by Fire Load? And How it is calculated? 5
 - e) Write notes on Fire resisting wall. 5

2. Solve any **four** sub-questions.
 - a) Write classification of pitched roof. 5
 - b) If weight of Combustible Material is 3000kg and Calorific Value 2000 Kcal/Kg on Floor Area $200M^2$. Calculate Fire Load. 5
 - c) What are the fire detector used in HRB and explain smoke detector? 5
 - d) What is purpose of Fire Safety Plan? 5
 - e) Write grading of occupancy by Fire Load. 5

3. Solve any **four** sub-questions.
- a) Define Fire resistance and write type of construction. 5
 - b) Explain requirement of electrical arrangement in Temporary Structure. 5
 - c) What is importance of plan with methods of reading? 5
 - d) Write preparation of standard symbol. 5
 - e) Write location of Temporary Structure. 5
4. Solve any **four** sub-questions.
- a) Draw diagram of Deluge Valve system and Label its part. 5
 - b) How alternate wet and dry pipe system work? 5
 - c) How Fire gate extinguish by HVWSPS? 5
 - d) What are the action in a sequence with respect to pre-action system? 5
 - e) What is mean by control burning? 5

