

P96/FSE103/EE/20160520

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 fire resisting properties of wood. 5
 - b) Define Stairs and write location of stair. 5
 - c) Write function of wall and define non-load bearing wall. 5
 - d) Write the causes of wall collapse. 5
 - e) Write the classification of roots. 5

2. Solve any **four** sub-questions.
 - a) Write fire fighting arrangements in High rise building and explain wet-riser-cum-down-comer. 5
 - b) Define fire load and how it is calculated. 5
 - c) How fire load is graded? 5
 - d) A building contain 1500 kg of combustible material having Calorific value of 3000 k Cal/kg and floor area 90 m². Calculate fire load. 5
 - e) Who Keep Explosive without license? 5

3. Solve any **four** sub-questions.
- a) What are types of fire detector used in HRB? Explain heat detector. 5
 - b) Write types of door and explain function of door. 5
 - c) What are the information to be collected from witnesses before investigation? 5
 - d) Write disposal of Carbide if wet. 5
 - e) Write classification of Hazardous Area as per rule 104 of Petroleum Act, 1934. 5
4. Solve any **four** sub-questions.
- a) Draw a diagram of Ionization Chamber of Smoke detector. 5
 - b) How Beam detector works? 5
 - c) Write a note on Sampling type detector. 5
 - d) Write operation of scanning type detector. 5
 - e) How Ultra violet radiation detector works? 5

