

Roll No. ....

**24702**

**B. Tech. 3rd Sem. (Fire Tech. & Safety)**

**Examination – December, 2015**

**FIRE ENGINEERING**

**Paper : FT-203 – F**

*Time : Three Hours ]*

*[ Maximum Marks : 100*

*Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.*

**Note :** Attempt *five* questions in all. Question No. 1 is *compulsory* and attempt *one* question from each Section. All questions carry equal marks.

1. (a) What is NBC ?
- (b) What do you mean by Tactical Ventilation ?
- (c) Write the short note on fire extinguisher.
- (d) What is Mechanical ventilation ?
- (e) Explain the classification of building based on occupancy.

4 × 5 = 20

### SECTION – A

2. Explain the following :

- (a) Compartment fire 10,10
- (b) Stage of Evacuation

3. Which types of parameters are used to design the evacuation passage and exits ? 20

### SECTION – B

4. How do you classify the building, based on occupancy ? 20

5. Explain the selection and planning of alarm system in a building as per ISI. 20

### SECTION – C

6. Explain the following :

- (a) Internal stair case 7, 7, 6
- (b) Pressurisation of stair case
- (c) Horizontal exits

7. How do you calculate the capacity number and width of exit as per NBC for different occupancy classification ? 20

### SECTION – D

8. Write the short note on following : 6,7,7

- (a) Fire safety audit
- (b) Fire training and education
- (c) Risk assessment

9. How do you plan to install the fire fighting equipment for different occupancy ? 20

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