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B. Tech. 3rd Semester (Fire Technology and Safety)

F. Scheme Examination, December-2014

**TOWN PLANNING AND SAFETY IN
CONSTRUCTION INDUSTRY**

Paper-FT-201-F

Time allowed : 3 hours]

[Maximum marks : 100

Note : Attempt five questions in all. Question No. 1 is compulsory. Attempt one question from each section.

1. (a) What do you mean by Consideration Climate ?
- (b) What is Drainage and Water supply ?
- (c) Explain unsafe act and unsafe condition.
- (d) What is difference between incident and accident?
- (e) What is Safety Organization ?
- (f) Define trenching.
- (g) What is Winch ?
- (h) What do you mean by caissons ?
- (i) What is Non-Explosive demolition ? Give examples.
- (j) Define P. P. E's. Give examples.

Section-A

2. (a) Explain topography, Drainage and water supply.

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- (b) Define planning survey, layout of housing areas with consideration of site orientation. 8
- (c) Write a short note on Group Housing. 4
3. (a) Explain in detail types of road in urban area. 8
- (b) Explain Multi story flats and group ware housing. 8
- (c) Write a short note on Commercial Complexes. 4

Section-B

4. (a) Define accident, hazard, unsafe act, unsafe conditions. 10
- (b) Write short notes on Safety Education and Training, Monitoring of safety performance. 10
5. (a) Explain Accident, its causes and effects of accident. 10
- (b) Write short notes on Safety Officer and Safety Organization. 10

Section-C

6. Write short notes on :
- (a) Safety in transporting, Lifting and Hoisting equipments. 8
- (b) Concreting work, Steel structural work and welding work. 8
- (c) General Fire and Safety requirement in High Rise buildings. 4

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7. (a) Safety in Cofferdams and Caisson work. 8
(b) Trenching work, its hazards and safety precautions in trenching work. 8
(c) Fire prevention and protection in handling of explosives. 4

Section-D

8. (a) What is Demolition? Define non-explosive demolition. What are the safety precautions taken during demolition work? 10
(b) What is P. P.E's ? Explain different types of P.P.E's in detail. 10
9. (a) Explain welfare provisions in factories as per Factory Act. 10
(b) Explain BOCW Act (1996) and central rules (1998). 10