

Roll No

FT - 302

B.E. III Semester

Examination, June 2014

Town Planning & Safety in Construction Industry

Time : Three Hours

Maximum Marks : 70

- Note:** i) Answer five questions. In each question part A, B, C is compulsory and D part has internal choice.
ii) All parts of each question are to be attempted at one place.
iii) All questions carry equal marks, out of which part A and B (Max. 50 words) carry 2 marks, part C (Max. 100 words) carry 3 marks, part D (Max. 400 words) carry 7 marks.
iv) Except numericals, Derivation, Design and Drawing etc.

- I. a) Explain the classification of residential buildings. 2
b) Briefly describe the uses of surveys. 2
c) What are the physical characteristics of site for an ideal town? 3
d) What is ribbon development? Draw a neat sketch of ribbon development and describe its disadvantages and problems. 7

OR

- e) Explain about preliminary survey with its objectives. 7

2. a) Explain the difference between accident and hazard. 2
 b) What are the causes and effects of accidents? 2
 c) Briefly describe the classes of dangerous occurrences at construction site which are required to be reported to the jurisdictional inspector. 3
 d) Write down the procedure of enquiry into causes of accident or dangerous occurrence at construction site? 7

OR

- e) What are the important safety precautions to be taken during erection or dismantling of steel and prefabricated structure? 7
3. a) Explain hazards and remedial measures in well sinking. 2
 b) What are various underground activities or work components? 2
 c) Describe in brief about caissons and their types. 3
 d) Describe excavation and also the general precautions to be taken during excavation or underground work. 7

OR

- e) Describe safety precautions in various types of transport, earth moving and material handling equipments used in construction sites. 7
4. a) Write a brief note on demolition? 2
 b) Explain in brief about safety measures to be taken in respect of paints and varnishes. 2

- c) Briefly describe the sequence of demolition operation from safety point of view. 3
 d) What are the precautions to be taken during demolition? 7

OR

- e) What are the planning aspects before demolition of a building / structure? 7

5. a) Describe the requirement of first-aid box at the construction site. 2
 b) Write a note on duties of constructional medical officer? 2
 c) Describe in brief about emergency care services or emergency treatment for a construction site. 3
 d) Summarize the important welfare provisions for workers under building and other construction workers Act 1996. 7

OR

- e) Write down salient features of building and other construction worker. (Regulation of service and conditions of service) Act 1996? 7

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