

Code No: **R31012**

# R10

**Set No. 1**

**III B.Tech I Semester Supplementary Examinations, October/November - 2016**

## **BUILDING PLANNING & DRAWING**

**(Civil Engineering)**

**Time: 3 hours**

**Max. Marks: 75**

**Answer any THREE Question from Part – A (3 x15)**

**and any ONE Question from Part – B (1 x 30)**

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### **Part – A**

- 1 a) Define the terms: Floor Area Ratio and Circulation. [7M]  
b) Discuss the various byelaws as applied to the buildings and indicate their usefulness. [8M]
- 2 a) Bring out the merits and demerits along with the implementation of building byelaws. [7M]  
b) Enumerate and explain the factors affecting the selection of site for residential buildings. [8M]
- 3 Briefly explain the principles of planning an Industrial building and an Office building. [15M]
- 4 a) Write short notes on Orientation and Ventilation of buildings. [7M]  
b) Differentiate between CPM and PERT. [8M]
- 5 a) Define the terms: Critical Activity, dummy, and Float. [7M]  
b) Draw the network diagram and show the critical path along with the project duration. [8M]

Activity	Description	Precedents	Duration
A	Select satisfaction survey tool	--	2 weeks
B	Print survey tool	A	3 weeks
C	Select list of patients	B	1 week
D	Sample from list	C	1 week
E	Mail surveys to selected patients	D	2 weeks
F	Collect responses	E	4 weeks
G	Analyze data	F	3 weeks



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**Part – B**

- 6 a) A 450mm wall is constructed in Flemish bond. The depth of foundation is 1200mm [8M]  
below ground level, the width being 1000mm. The depth of concrete is 700mm.  
Draw it to a suitable scale.
- b) Draw the conventional signs of Copper alloy and Aluminum alloy. [7M]
- 7 Draw to scale the front elevation, Sectional Plan and section of a three paneled door [15M]  
with one panel glazed of 2200 x 1300mm showing all the details.

2 of 2

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