

Code No: **R31012/R10**

III B.Tech I Semester Supplementary Examinations, November - 2015

BUILDING PLANNING & DRAWING

(Civil Engineering)

Time: 3 hours

Max. Marks: 75

Answer any THREE Questions from Part – A (3x15M)

and any ONE Question from Part – B (1x30M)

Part – A

- 1 a) Enumerate the principles laid under the building byelaws.
b) Explain in detail the criteria for open space requirements.
- 2 a) What are the various climatic factors affecting the Planning of Building.
b) Discuss the functions purpose and requirements of kitchen and Dining Room.
- 3 Highlight the various concepts to be included in the planning of a hospital.
- 4 a) What are the planning factors that need to be considered for planning of library building? Explain.
b) Enumerate the basic objectives of Planning and scheduling.
- 5 a) Develop a network based on the following information and determine the critical path and duration of the project.

Activity	A	B	C	D	E	F	G	H
Immediate Predecessors	--	--	A	B	B	C,D	E	F,G
Duration	6	5	9	8	7	13	10	7

- b) State the rules for numbering the network diagram.

Part – B

- 6 a) Show the English bind and Flemish bond for even courses at the junction of a corner.
b) Draw the conventional sign for Stone, Sand filling, Cast iron and White lead.

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- 7 The line plan diagram of a building is shown in the figure below. Draw the Plan Section along XX and Elevation. Foundation: All walls are taken 900mm below the ground level. Concrete footings is 300mm thick of 1:3:6 CC, 800mm wide, height of the basement is 600mm above G.L, Walls are 300mm thick of brickwork in C.M 1:6. All walls are of brick 200mm thick in CM 1:6 in superstructure. Clear head room is 3500mm. Roof is 100mm thick 1:2:4 R.C.C slab. Weathering coat of flat tiles of 2 layers, 25mm thick is laid over it. Flooring is 150mm thick C.C of 1:4:8 finished with 10mm thick CM 1:3. Door is paneled door 900mm x 2100mm; Window is of Glazed 1200 x 1400mm. Sunshades project 500mm beyond the wall face.


