

CE-228  
B.E. IV Semester  
Examination, June 2017  
Choice Based Credit System (CBCS)  
Building Planning and Architecture  
Time : Three Hours] [Maximum Marks: 60

Note: i) Attempt any five questions. ii) All questions carry equal marks.

1. a) Draw a typical cross section of wall passing through the door and show all the components of building from foundation to slab level.  
b) What is Foundation? Draw and show the various components of Raft foundation and column footing.  
c) Draw and differentiate the flush door with panel door.
2. a) Write five important provisions, related to residential building in National Building Code.  
b) Explain percent builtup area and FAR.  
c) What is orientation of building. Explain by drawing figure.
3. a) For planning considerations explain Residential, Institutional and Commercial buildings.  
b) What are the requirements of good quality staircase? Draw the figure of Dog legged and open well stairs.  
c) Write in brief on computer aided design.
4. a) Explain in brief by drawing flow diagram on water supply services and waste water disposal arrangement in a residential building.  
b) Write in brief on:
  - i) Fire fighting system in multistoried building
  - ii) Acoustics of building and
  - iii) Electrification system in a building
5. a) State and briefly explain different principles of architectural composition in building elements.  
b) What are the various types of perspectives and give two methods of drawing perspective.
6. a) What is Master plan? Discuss its contents in details.  
b) Write the salient points of colony planning. Plan and allocate the area reserved for different purposes in a land having area approximate 8 Hectares. (Assume land shape either square or rectangle).
7. a) Write short notes on:
  - i) Mass
  - ii) Proportioning
  - iii) Contrast
  - iv) Different land use purposes.  
b) Write the various points to be incorporated with energy efficient building.
8. Write short notes on (any four):
  - a) Open areas and set backs
  - b) Building Bye laws
  - c) Lintel and Chajja projections
  - d) Auto CAD drawings
  - e) Architectural symmetry
  - f) Role of colours in architecture

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