



B.E. (FULL TIME) DEGREE END SEMESTER EXAMINATIONS, April /May 2011

CIVIL ENGINEERING BRANCH

9

EIGHTH SEMESTER – REGULATIONS 2004

CE 482 ARCHITECTURE

Time: 3 hours

Max. Marks: 100

Answer All Questions

Part – A (10x2 = 20 marks)

1. Draw a line sketch of the plan of your dream house indicating the dimensions of rooms.
2. Bring out the relationship between Function and Aesthetics by sketching a compound wall for your dream house.
3. Sketch two alternate layers of bricks for a Rat Trap Bond Wall for your house duly showing how "Passive Energy Control" can be achieved.
4. Sketch a proposed "Air Curtain" for a commercial building duly showing how "Active Energy Control" is achieved.
5. Draw a sketch to show that double access is permitted and necessary for the plots meant for industrial units.
6. Spell out the fire safety norms for Multi Storied Buildings as per Development Control Rules applicable to Chennai.
7. What do you understand by non-conforming use in a land use zone?
8. Draw a typical "Independent Cluster" that can be provided in a layout.
9. What is a blighted area in a city?
10. Tree selection is a detective work - Comment.

Part – B (5x16 = 80 marks)

11. (i) Why do we have to conserve certain 'buildings', 'sites' and 'towns'? (8 marks)
(ii) Explain the features of any building / site / town that you recommend for conservation. (8 marks)

12. A) Draw the elevation of any four buildings in your college campus and bring out the following elements of architecture. (16 marks)

- (i) Symmetry (ii) Solids and voids (iii) Texture (iv) Colour and Contrast
(v) Datum (vi) Rhythm and repetition

OR

12. B) Explain with sketch the architectural design of a Guest House bringing out the following.

- (i) Site planning (ii) Circulation (iii) Safety Regulations (iv) Landscaping (16 marks)

13. A) Write short notes on the following relating to Green Building concepts

- (i) LEED (ii) RWH (iii) SWH (iv) VOC (16 marks)

OR

13. B) (i) Explain in brief the IGBC's guidelines and criteria for rating of buildings. (8 marks)
(ii) Explain in detail the credits assigned and requirements to be fulfilled for earning credits under "Water Efficiency" in IGBC's rating system. (8 marks)

14. A) (i) What are the criteria that you will set to design a house with home office? (8 marks)
(ii) Write the provisions given in National Building Code of India for the following:
(a) Ramp for public buildings (b) Mezzanine floor (8 marks)

OR

14. B) (i) What do you understand by Sustainable Architecture? (8 marks)
(ii) Sky lights are wonderful but should be adopted and provided with care - Discuss with Sketches. (8 marks)

15. A) Several sites have been allotted to you for locating a residential township. Make an analysis of the sites duly bringing out the factors based on which you will choose the best. (16 marks)

OR

15. B) You are given 8 acres of land and Rs 8 crores as budget for landscaping an area into a beautiful garden. Submit your design. (16 marks)