



B.E. (FULL TIME) DEGREE END SEMESTER EXAMINATIONS, NOV/DEC 2011

CIVIL ENGINEERING BRANCH

SEVENTH SEMESTER - REGULATIONS 2008

CE 9406 ARCHITECTURE AND TOWN PLANNING

Time: 3 hours

Max. Marks: 100

Answer All Questions

Part – A (10x2 = 20 marks)

1. What are the significance of the following in Architecture?
(i) Point, (ii) Line (iii) Plane and (iv) Volume
2. Draw a sun shade blending 'Function' and 'Aesthetics'
3. Define plot coverage for buildings with 'over hangs' and 'without over hangs'.
4. Draw one cluster with provision for central open space.
5. Draw a sketch of a typical 'basement floor' and 'mezzanine floor' with dimensions as stipulated by NBC
6. What are the basic information that you need to collect to design a factory building?
7. How does sky light help climate responsive buildings?
8. What are the compliance options for materials to be used in the buildings for IGBC certification?
9. What do you understand by Regional Planning?
10. Draw four sketches to show how water can be used as a feature in landscaping architecture.

Part – B (5x16 = 80 marks)

11. List the elements of Architectural design and explain them with sketches. (16 marks)
12. A) (i) What are the regulations to choose a site for development? (8 marks)
(ii) Rain Water Harvesting is an essential stipulation of DCR. Sketch the various methods advocated. (8 marks)

OR

12. B) Write detailed notes on the following:
 - (i) Open Space Reservations in developments (5 marks)
 - (ii) Special Building Developments (5 marks)
 - (iii) Transferable development rights (3 marks)
 - (iv) Re-constitution of plots (3 marks)

13. A) (i) Draw sketches to show conventional type of office arrangements and workstation type of office arrangements. Discuss the merits and demerits. (8 marks)
(ii) How do you make public buildings environment as barrier free? (8 marks)

OR

13. B) (i) What are the standards stipulated in DCR for Multi Storied buildings? (8 marks)
(ii) What do you understand by heat island effect and how do you position fenestrations and shades in buildings? (8 marks)

14. A) (i) What are the various climate types and their characteristics? (8 marks)
(ii) Write with sketches any four methods by which the heat transfer can be controlled from the roof. (8 marks)

OR

14. B) (i) State the relevant compliance options for IGBC in respect of energy efficiency and water efficiency. (8 marks)
(ii) Court yards have high utility value and offer thermal comfort - Explain. (8 marks)

15. A) (i) What do you understand by urban sprawl and urban renewal? (8 marks)
(ii) Discuss any one urban renewal program that you visited. (8 marks)

OR

15. B) (i) Conservation of natural resources help sustainable development - Elaborate. (8 marks)
(ii) Conservation of heritage sites and buildings are part of development regulations. State the provisions. (8 marks)