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B.E. (FULL TIME) DEGREE END SEMESTER EXAMINATIONS, APRIL /MAY 2012

CIVIL ENGINEERING BRANCH

EIGHTH SEMESTER - REGULATIONS 2004

CE 482 ARCHITECTURE

Time: 3 hours

Max. Marks: 100

Answer All Questions

Part – A (10x2 = 20 marks)

1. What do you understand by aesthetics?
2. Write any four basic elements of Architectural Design.
3. Demonstrate with a sketch that wind direction is an essential factor to be considered in site analysis.
4. List any four uses permitted in the land designated as Primary Residential use zone.
5. Draw a sketch of a chair and a table for a computer personnel showing the dimensions following ergonomics.
6. Draw a sketch of a bedroom with minimum sizes as allowed in the National Building Code (NBC).
7. List the criteria set for rating of Green Buildings according to Indian Green Building Council (IGBC).
8. What is the purpose of Air Curtain in a building?
9. What are contents of the mission statement of Jawaharlal Nehru National Urban Renewal Mission (JNNURM) with reference to housing?
10. CMRL project and Higgin Bothams Building are talk of the town - comment.

Part – B (5x16 = 80 marks)

11. Elaborate with examples why urban developments are prohibited generally in the following areas. (16 marks)
 - (i) Marshy and Swamp Area
 - (ii) Reserve Forest Area
 - (iii) Catchment Area
 - (iv) Costal Area
12. A) Draw a plan and elevation of a typical building duly bringing out the basic principles of Architectural Design. (16 marks)

OR

12. B) Draw a plan and elevation of an exterior wall of a commercial building integrating 'Functions' and 'Aesthetics'. (16 marks)
13. A) List the standards for parking as given in Development Control Regulations (DCR) of Chennai Metropolitan Area (CMA). (16 marks)

OR

13. B) A land measuring 5 Ha is to be plotted out for residential developments. Draw a layout with cluster type development and conforming to the norms prescribed in DCR of CMA. (16 marks)

14. A) Design a two bed roomed building unit dully bringing in Energy Efficiency measures. (16 marks)

OR

14. B) State the IGBC compliance requirements for Green Building rating in terms of the following. (16 marks)

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| (i) Water Efficiency | (ii) Waste Water Reuse |
| (iii) Materials for Construction | (iv) Landscaping |

15. A) Write short notes on

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|-----------------------|-------------------------------|
| (i) Urban Decay | (ii) Crowding |
| (iii) Quality of Life | (iv) Sustainable Development. |

OR

15. B) Design and draw a park and play ground with suitable landscaping for a neighborhood with a population of 10,000. (16 marks)