

Reg. No. : 4

C 3124

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2008.

Seventh Semester

(Regulation 2004)

Civil Engineering

CE 1007 — HOUSING PLANNING AND MANAGEMENT

(Common to B.E. (Part-Time) Sixth Semester Regulation 2005)

Time : Three hours

Maximum : 100 marks

Draw neat sketches wherever required.

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Distinguish between 'special buildings' and 'multi-storeyed buildings' for housing.
2. State any two objectives of the National Urban Housing and Habitat Policy, 2007.
3. What is the role of Non-Government Organisations?
4. Enumerate any two strategies for promotion of rental housing in Tamil Nadu.
5. Sketch a housing plan for an economically weaker section family.
6. List various components of a housing project.
7. State any two concepts of 'building centres' in India.
8. Draw a neat sketch of any one construction technique.
9. Define the term project appraisal in housing.
10. What is housing finance? Why is it important?

PART B — (5 × 16 = 80 marks)

11. (a) Enumerate any six principles of sustainable housing and evaluate any housing project you are familiar with, against those principles.

Or

- (b) Give a brief account of 'Development Control Regulations' as applicable to any one metropolitan city in Tamil Nadu.

12. (a) Explain with neat sketches the basic concept, contents and standards for 'sites and services schemes'.

Or

- (b) Illustrate with neat sketches any one neighbourhood project you know and explain its concept, contents and standard.

13. (a) Suppose you are appointed as an 'Assistant Planner' of the Tamil Nadu Housing Board, evolve a methodology to analyse three sites and to choose the best among them.

Or

- (b) It is proposed to develop a composite housing project to accommodate 10,000 population comprising 'Economically Weaker Section', 'Low Income Group', 'Middle Income Group' and 'Higher Income Group'. The World Bank funds the project.

Estimate the following and draw a hypothetical layout and design housing units for 'Low Income Group' and 'High Income Group'.

- (i) Total land requirement for the project
- (ii) Hierarchy of roads and the road area
- (iii) Open space reservation area
- (iv) Types of public purpose uses such as schools, health centres and others to be earmarked and their extent.

14. (a) Discuss various functions of building centres. Evaluate the performance of any one building centre you know.

Or

- (b) Describe characteristics of any four cost-effective modern building materials and compare their costs and strengths with corresponding conventional material.

15. (a) (i) Define cash flow analysis and explain its significance in project appraisal with examples.

- (ii) State the principle of subsidy and cross-subsidy in housing and explain their merits and demerits with examples.

Or

- (b) Estimate the price per plot of different income groups in the layout referred in the question 13(b). The price has to be fixed based on the principle of cross-subsidy. Make suitable assumptions on the cost of land, cost of development and cost of provision of infrastructure and any other aspects required.