

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 2449 Roll No.

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B.Tech.

(SEM. VI) THEORY EXAMINATION 2011-12
PRINCIPLES OF TOWN PLANNING AND
ARCHITECTURE

Time : 2 Hours

Total Marks : 50

Note :—Attempt all questions.

1. Attempt any **four** parts of the following :— **(3.5×4=14)**
 - (a) Briefly explain the principle of town planning.
 - (b) Discuss the theory of Three Magnet's and its relevance in Modern Urban Planning.
 - (c) What are the different land uses ? Explain importance of land use zoning in development plan.
 - (d) What are the various aspects of population survey ? How it is conducted ?
 - (e) How the transportation planning does affect the social sector of a country ?
2. Attempt any **three** parts of the following :— **(4×3=12)**
 - (a) Explain the planning considerations of neighbourhood with special reference to Indian cities.
 - (b) What do you mean by the concept of 'Garden city' ? Also discuss its contribution in early planning efforts.

- (c) Explain use of GIS in data collection, analysis and planning of a Town. Give the name of any four softwares used in Urban Planning.
- (d) Briefly explain the 'Gothic and Renaissance' architecture.
3. Attempt any **two** parts of the following :— (6×2=12)
- (a) Which type of material plays a very important role for the architecture planning of a building ? Briefly explain these materials with their advantages and disadvantages.
- (b) Write a detailed note on the 'evolution of architectural forms'.
- (c) Why the proper coordination between a design engineer and an architect must required for achieving the anesthetic and functional proportion for a building ?
4. Attempt any **three** parts of the following :— (4×3=12)
- (a) Briefly mention the building bye-laws for residential area of a typical town planning scheme.
- (b) Define built up area and floor space index. How would you calculate these two ? Also distinguish plinth area and carpet area.
- (c) How an architect and a town planner keep very important role for the growth of any country ?
- (d) What are the main considerations in planning and design of a hospital building in an urban area ?