

(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) EVEN THEORY EXAMINATION 2012-13

**PRINCIPLES OF TOWN PLANNING AND  
ARCHITECTURE***Time : 2 Hours**Total Marks : 50***Note** :- Attempt **all** questions.

- (c) What do you mean by the satellite town concepts ? How will you use the Geographic Information Systems for the town planning ?
- (d) How did the religious ideas and enthusiasm of the people reflect itself in the architecture of the Gothic period ?
3. Attempt any **two** parts of the following : **(6×2=12)**
- (a) Discuss the new ideas, movements and inventions associated with the beginning of the Renaissance with reference to the impact of development of building materials.
- (b) Outline the evolution of vaulting and development of structural system in Gothic architecture.
- (c) Explain the role of a design engineer and an architect for achieving the aesthetic and functional proportion for a building. Also discuss the necessity of their mutual coordination during the design of a building.
4. Attempt any **two** parts of the following : **(6×2=12)**
- (a) As an architect, write about the various building byelaws which you will follow at the time of construction of a residential building. Also write about the orientation of buildings.
- (b) What is the significance of scale in Architecture ? Write the basic rules for Architectural perspective drawings.
- (c) What are the main considerations in planning and design of commercial complexes ? Discuss in detail.

1. Attempt any **four** parts of the following : **(3.5×4=14)**
- (a) Explain various principles of Town Planning in India.
- (b) What do you mean by the land use patterns ? Briefly explain the various public policies related to land use and physical planning.
- (c) Why population survey is required at the time of Town Planning ? As an architect, how will you conduct this survey ?
- (d) Describe the travel and transport strategy and policy at the time of Town Planning in India.
- (e) What are the factors considered in the selection of road junction ?
2. Attempt any **three** parts of the following : **(4×3=12)**
- (a) What is the necessity of the awareness of environmental pollution ? Explain briefly its ill effects.
- (b) Discuss the contribution of 'Garden City Movement' in early planning efforts in India.