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B.TECH.**THEORY EXAMINATION (SEM–VI) 2016-17****PRINCIPLES OF TOWN PLANNING AND ARCHITECTURE****Time : 3 Hours****Max. Marks : 100****Note : Be precise in your answer. In case of numerical problem assume data wherever not provided.****SECTION – A****1. Attempt the following:****10 x 2 = 20**

- (a) Write a short note on zoning?
- (b) Mention some of the disadvantages of existing unplanned towns?
- (c) What is meant by neighbourhood planning?
- (d) Outline the objectives of replanning the existing towns and cities?
- (e) List out the factors influencing the architectural development?
- (f) Give the specialities of Roman architecture?
- (g) Explain the term contrast?
- (h) Define rhythm?
- (i) What do you understand by the term circulation?
- (j) Draw any two symbols used in building industry as per NBC?

SECTION – B**2. Attempt any five of the following questions:****5 x 10 = 50**

- (a) Explain about transportation network and planning? Also discuss how it affects the social sector of the country?
- (b) Elaborate briefly about the principles of town planning? Give the importance of land use zoning in developmental plans?
- (c) Give a short notes on
 - (i) linear city concept
 - (ii) concentric city concept
- (d) What do you understand by neighbourhood? Explain the salient principles of neighbourhood planning ?
- (e) Which type of material plays an important role for architectural planning of a building? Briefly explain these materials with their advantages and disadvantages?
- (f) Discuss on the following principals of architectural design
 - (i) Balance (ii) Emphasis (iii) Proportion and Scale
 - (iv) Repetition (iv) Unity
- (g) List out the factors considered while selecting the site for residential building and explain in detail? Also mention the requirements of a residential building?
- (h) Classify the various types of industries? Describe the characteristics of an industrial building?

SECTION – C**Attempt any two of the following questions:****2 x 15 = 30**

- 3. (a) What is zoning and how does it help in orderly growth and development of cities?
- (b) Explain the concept of satellite town and give examples?
- 4. (a) Elaborate briefly on the evolution of various architectural forms?

- (b) Discuss on the following elements of architectural design
- (i) line (ii) form (iii) shape (iv) colour

5. What are the objectives of By-laws? What are the main considerations in planning and designing a commercial building in an urban area ?