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Question Paper Code: 59011

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2017

Elective

Civil Engineering

15UCE904 - TOWN PLANNING AND ARCHITECTURE

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

1. A type of balance in which both sides of composition are balanced yet different
(a) Asymmetrical (b) Radial (c) Focal point (d) Geometric
2. A plan for selecting colours for a composition is also known as
(a) Color spectrum (b) Color Wheel (c) Color Scheme (d) Color mix
3. The boundary area of a land is decided by _____ survey.
(a) National (b) Preliminary (c) Regional (d) Civic
4. Population aspects of a town life are studied in _____ survey.
(a) Social (b) Functional (c) Territorial (d) Vital
5. The road which connects the town to a state highway or a national highway is termed as
(a) Arterial road (b) Sub-Arterial road
(c) Through and by pass road (d) Inner and Outer ring road
6. _____ is defined as an arrangement of housing sites.
(a) Zoning (b) Development (c) Layout (d) Focal
7. The combined effect of temperature, rainfall and wind is known as
(a) Active energy (b) Passive energy (c) Climate (d) Environment

8. _____ energy system utilizes mechanical devices to recover, store and deliver thermal energy.
(a) Active (b) Passive (c) Combined (d) Wind
9. _____ Prevents encroachment of one zone upon another zone adjacent to it.
(a) Zoning (b) Landscapes (c) Town planning (d) Urban renewal
10. An open strip of land provided on the periphery of a town for the special purpose of limiting the growth of a town is known as
(a) Design (b) LandScapes (c) Town planning (d) Urban renewal

PART - B (5 x 2 = 10 Marks)

11. Define architectural design.
12. Mention any four factors to be considered in site analysis.
13. Classify the buildings based on their function and purpose?
14. How can energy be saved by passive measures? Mention any two.
15. Indicate the importance of Urban Planning Standards.

PART - C (5 x 16 = 80 Marks)

16. (a) Explain briefly the principles of architectural design. (16)
- Or
- (b) How will you integrate the aesthetic and functional elements in architecture? (16)
17. (a) What are the different survey methods? Discuss in detail about any two. (16)
- Or
- (b) List the various parameters given in the D.C.R. Also elaborate on the conditions that an institutional building needs to follow. (16)
18. (a) Describe the safety standards to be adopted in commercial and industrial buildings. (16)
- Or
- (b) Illustrate how fire hazards can be avoided in building during and after construction. (16)

19. (a) Explain the design guidelines to be followed in Hot Dry climate for walls, roofs and openings. (16)

Or

(b) Explain how green building concepts applied for energy management systems. (16)

20. (a) Bring out the various urban-renewal, conservation and redevelopment projects adopted in Tamil Nadu. (16)

Or

(b) Explain the various aspects of landscape design principles with neat sketches. (16)
