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Question Paper Code: 59104

B.E./B.Tech. DEGREE EXAMINATION, MAY 2018

Elective

Civil Engineering

15UCE904 - TOWN PLANNING AND ARCHITECTURE

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer All Questions

PART A - (10x 1 = 10 Marks)

1. A type of balance in which both sides of composition are balanced yet different CO1- R
(a) Asymmetrical (b) Radial (c) Focal point (d) Geometric
2. _____ can be measured in terms of height, width, breadth CO1- R
(a) Form (b) Space (c) Shape (d) Texture
3. _____ means division of land into flats exceeding in number CO2- U
(a) layout (b) plot (c) Apartment (d) land
4. The normal permissible plot coverage is CO2- U
(a) 25% (b) 55% (c) 45% (d) 65%
5. The site can be at least _____ away from the railway line CO3- R
(a) 15m (b) 30m (c) 40m (d) 20m

6. In staircase thread and rise should be CO3- R
 (a) 20,10cm (b) 15,20cm (c) 7,15cm (d) 25,15 cm
7. Tropical forests are depleting at a rate of _____% per annum CO4- R
 (a) 5 (b) 3 (c) 2 (d) 9
8. The combined effect of temperature ,rainfall and wind is known as CO4- R
 (a) Active energy (b) Passive energy (c) Climate (d) Environment
9. Maps from aerial phothos shows up to _____% of contents. CO5- R
 (a) 80 (b) 90 (c) 98 (d) 97
10. _____ are normally used on small scale maps. CO5- R
 (a) Matlong (b) Latlong (c) High long (d) Strip long

PART – B (5 x 2= 10 Marks)

11. What are the principles of Architectural design? CO1- U
12. Mention any four factors to be considered in site analysis CO2- U
13. How do you differentiate carpet area and plinth area? CO3- U
14. How can energy be saved by passive measures? Mention any two. CO4- U
15. Indicate the importance of Urban Planning Standards.? CO5- U

PART – C (5 x 16= 80Marks)

16. (a) Briefly explain the factors to be considered in architectural design. CO1-U (16)

Or

- (b) How will you integrate the aesthetic and functional elements in architecture? CO1 -U (16)
17. (a) Explain about site analysis and discuss about the methods adopted for site analysis CO2 -U (16)

Or

- (b) Explain the layout design concept in detail CO2 -U (16)
18. (a) Illustrate how fire hazards can be avoided in building during and after construction CO3- App (16)

Or

- (b) Describe the safety standards to be adopted in commercial and industrial buildings CO3- App (16)
19. (a) Explain how green building concepts applied for energy management systems. CO4-App (16)

Or

- (b) Explain the design guidelines to be followed in Hot Dry climate for walls, roofs and openings. CO4 -App (16)
20. (a) Discuss briefly on urban renewal. Explain the concepts of public participation in urban renewal projects. CO5- App (16)

Or

- (b) Discuss the aspects of landscape design with neat sketches CO5- App (16)

