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Reg. No. :

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**Question Paper Code: 59104**

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2024

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. Which concepts is used to list the buildings and areas CO1- R  
(a) Height                      (b) Space                      (c) Length                      (d) Space and length
2. A series of elements can be arranged along an axis is CO1- R  
(a) Size                      (b) Shape                      (c) Line                      (d) Datum
3. The art and science of arranging the structures on the land and shaping the spaces is CO2- R  
(a) Town planning      (b) Building planning      (c) Site planning      (d) Urban planning
4. A good layout can be prepared by planning a high density of order of \_\_\_\_\_ persons/acre. CO2- R  
(a) 300-350                      (b) 400-450                      (c) 500-550                      (d) 600-650
5. An anti space between interior and exterior is. CO3- R  
(a) Hall                      (b) Sit out                      (c) Portico                      (d) Washing area
6. Type 2A, 2B denotes \_\_\_\_\_ CO3- R  
(a) Fire resistive Buildings                      (b) Non-combustible Buildings  
(c) Heavy timber Buildings                      (d) Ordinary Buildings

7. Which type of trees are suitable for shading purposes CO4- R  
 (a) Deciduous (b) Non deciduous (c) Bamboo (d) Neem tree
8. Temperature range of hot dry zones is CO4- R  
 (a) 35- 45° C (b) 40-50° C (c) 45-55° C (d) 50-55° C
9. Which one is legal implications CO5- R  
 (a) Easements (b) Cost of land (c) Cost of vehicle (d) Cost of building
10. Roman period is CO5- R  
 (a) 3000 B.C. (b) 480 B.C. (c) 200 B.C (d) 150 B.C

PART – B (5 x 2= 10 Marks)

11. Define Architecture. CO1- R
12. List the function of surveys. CO2- R
13. Define interior design. CO3- R
14. List any two green building concepts. CO4- R
15. Differentiate town and urban planning. CO5- R

PART – C (5 x 16= 80 Marks)

16. (a) (i) Briefly describe the history of Architecture. CO1- U (8)  
 (ii) Explain the principles of Architectural design. CO1- U (8)
- Or
- (b) (i) Explain the integration of function and aesthetics of building Architecture. CO1- U (8)  
 (ii) Explain the basic elements of Architect CO1- U (8)
17. (a) Explain layout regulations and design concepts. CO2- U (16)
- Or
- (b) Describe the different types of surveys used in site planning. CO2- U (16)

18. (a) Explain the application of anthropometry and space standards CO3- U (16)  
Or  
(b) Explain the Integration of building services CO3- U (16)
19. (a) Differentiate the passive and active energy controls CO4- U (16)  
Or  
(b) Explain the following. CO4- U (16)  
1. Characteristics of climate types.  
2. Design for various climate types
20. (a) Explain the concepts and processes of town planning CO5- U (16)  
Or  
(b) Explain the principles of landscape design CO5- U (16)

