



B.E DEGREE EXAMINATIONS: MAY 2018

(Regulation 2015)

Fourth Semester

CIVIL ENGINEERING

U15CEPE03: Town Planning and Architecture

COURSE OUTCOMES

- CO1:** Perform architectural design of structures.
CO2: Suggest the land requirement as per the zoning regulations.
CO3: Apply anthropometry and space standards.
CO4: Apply green building concepts.
CO5: Design for various climate types.
CO6: Perform Landscape design.

Time: Three Hours

Maximum Marks: 100

Answer all the Questions:-

PART A (10 x 1 = 10 Marks)

1. Match the areas in list I and with their specifications in list II:

CO3 [K₁]

List I	List II
A. Min. height of mezzanine floor	i. 1.5
B. Min FSI for Industrial area(Scheme area)	ii. 1500m ²
C. Min. size of plots (hostels)	iii. 2.1 m
D. Min height of head room of stairs	iv. 2.75 m

- | | A | B | C | D |
|----|-----|----|-----|-----|
| a) | iv | i | ii | iii |
| b) | iii | iv | ii | i |
| c) | ii | iv | iii | i |
| d) | iii | i | ii | iv |

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|---|-----|-------------------|
| 17. Differentiate between Floor area ratio and Plot coverage. | CO3 | [K ₂] |
| 18. List any four Green building rating systems. | CO4 | [K ₁] |
| 19. What is the difference between climate and weather? | CO5 | [K ₂] |
| 20. Define landscape design. | CO6 | [K ₁] |

Answer any FIVE Questions:-

PART C (5 x 14 = 70 Marks)

(Answer not more than 300 words)

Q.No. 21 is Compulsory

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|---|------|-----|-------------------|
| 21. (i) Define the terms Zoning and Building bye laws. | (4) | CO2 | [K ₂] |
| (ii) Describe in detail the three methods of zoning. | (10) | CO2 | [K ₂] |
| 22. (i) Distinguish between Architecture and Civil Engineering. | (4) | CO1 | [K ₁] |
| (ii) Explain in detail about any five elements of Architecture design. | (10) | CO1 | [K ₁] |
| 23. (i) List the types of planned and natural growth of towns. | (4) | CO2 | [K ₁] |
| (ii) What are the different types of surveys to be carried out for town planning scheme? | (10) | CO2 | [K ₂] |
| 24. (i) Define Anthropometrics. | (2) | CO3 | [K ₁] |
| (ii) Explain how anthropometrics and space standards are used in the design of a residential building with suitable examples. | (12) | CO3 | [K ₂] |
| 25. List and explain the six components for which green buildings are designed. | | CO4 | [K ₁] |
| 26. (i) What are the climatic factors to be considered while doing architectural design? | (4) | CO5 | [K ₂] |
| (ii) List the types and characteristics of climate which comes under the tropical zone. | (10) | CO5 | [K ₁] |
| 27. (i) Explain the benefits and techniques of Urban renewal. | (10) | CO6 | [K ₂] |
| (ii) List the principles of landscape design. | (4) | CO6 | [K ₁] |
