



**B.E DEGREE EXAMINATIONS: MAY 2017**

(Regulation 2014)

Sixth Semester

**CIVIL ENGINEERING**

U14CETE14: 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:** Perform Landscape design

**Time: Three Hours**

**Maximum Marks: 100**

**Answer all the Questions:-**

**PART A (10 x 1 = 10 Marks)**

1. Matching type item with multiple choice code

CO2 [K1]

List I		List II	
A. Egyptain		i. Miletus	
B. Greek		ii. Montpazier	
C. Medievel		iii. Kahun	
D. Renaissance		iv. Versailles	

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

2. Travel behavior characteristics of an urban area can be derived from

CO2 [K2]

- |                          |                                |
|--------------------------|--------------------------------|
| a) Parking Survey        | b) Demographic Survey          |
| c) Socio Economic Survey | d) Origin & Destination Survey |

3. Indian urban land use map in Industry and Transportation corresponding colour codes as per UDPI guidelines

CO2 [K2]

- |           |         |         |        |
|-----------|---------|---------|--------|
| 1. Violet | 2. Grey | 3. Blue | 4. Red |
|-----------|---------|---------|--------|

- |        |        |
|--------|--------|
| a) 1,3 | b) 1,4 |
| c) 1,2 | d) 2,3 |

4. Identify which is **NOT** a green building rating system CO4 [K2]  
a) LEED b) CASBEE  
c) BREEAM d) ENERGY BUILD
5. Assertion (A): Urban renewal, which is generally called urban regeneration CO5 [K2]  
Reason (R): Urban planning is a technical and political process concerned with the development and use of land, planning permission, protection  
a) Both A and R are Individually true and R is the correct explanation of A b) Both A and R are Individually true but R is not the correct explanation of A  
c) A is true but R is false d) A is false but R is true
6. Which % of household energy is used for heating and cooling to achieve thermal comfort CO3 [K1]  
a) 20% b) 50%  
c) 40% d) 30%
7. Consider the following surveying techniques in identifying correct sequence. CO2 [K3]  
1. Self Surveys 2. Direct Inspection 3. Interviews 4. Observers Participation  
a) 2-3-4-1 b) 1-3-2-4  
c) 3-4-2-1 d) 4-1-3-2
8. As per National Building Code 2005, the minimum size of a habitable room in m<sup>2</sup> is CO3 [K1]  
a) 9.5 b) 10.5  
c) 11.5 d) 12.5
9. Assertion (A): Green building is also called sustainable building CO4 [K4]  
Reason (R): Green building refers to both a structure and the using of processes that are environmentally responsible and resource-efficient throughout a building's life-cycle  
a) Both A and R are Individually true and R is the correct explanation of A b) Both A and R are Individually true but R is not the correct explanation of A  
c) A is true but R is false d) A is false but R is true
10. The information that is **NOT** essential to be submitted for sanction of any building plan is CO2 [K2]  
a) Site Plan b) Floor Plans  
c) Title Deed d) Land Cost

**PART B (10 x 2 = 20 Marks)**

**(Answer not more than 40 words)**

- |  |     |      |
|--|-----|------|
| 11. Differentiate the term contrast and Rhythm in Architecture.        | CO1 | [K1] |
| 12. Define the terms climax and proportion in architecture.            | CO1 | [K2] |
| 13. Why zoning is necessary in an urban Area?                          | CO2 | [K1] |
| 14. What are the types of surveys in town planning?                    | CO2 | [K2] |
| 15. What are the different types of building?                          | CO3 | [K2] |
| 16. Define Interior design.  | CO3 | [K1] |
| 17. List the various safety standard to be followed in building.       | CO4 | [K1] |
| 18. Name the various building services to be integrated in a building. | CO4 | [K3] |
| 19. State the needs of conserving of old building in an urban area.    | CO5 | [K1] |
| 20. What is meant by Urban Renewal?                                    | CO5 | [K1] |

**Answer any FIVE Questions:-**

**PART C (5 x 14 = 70 Marks)**

**(Answer not more than 300 words)**

**Q.No. 21 is Compulsory**

- |   |     |      |
|---|-----|------|
| 21. Briefly explain Basic principles and elements of Landscape design.                              | CO5 | [K6] |
| 22. Explain the Green Building Concept.   | CO3 | [K2] |
| 23. (i) Define passive energy controls and explain what are the factors that Influence Climate. (7) | CO3 | [K5] |
| (ii) How to design for Various Climate Type (7)   | CO3 | [K2] |
| 24. Discuss the Architectural Design Elements.  | CO1 | [K3] |
| 25. Explain the application of anthropometrics in architectural design.                             | CO3 | [K3] |
| 26. What is meant by Land-use planning? Explain different types of planning and its methods.        | CO2 | [K4] |
| 27. Explain the Urban renewal in Environmental Design?  | CO1 | [K3] |

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