

B.E./B.TECH. Degree Examination, December 2020

Semester - VI

CE16002-ARCHITECTURE

(Regulation 2016)

Time: Three hours

Maximum : 80 Marks

Answer **ALL** questions

PART A - (8 X 2 = 16 marks)

1. _____ refers to the effect produced by deriving the maximum benefits from the minimum dimensions off a room.
 - a) Compactness
 - b) Roominess
 - c) Grouping
 - d) Privacy
2. Which factor is not considered for study of site?
 - a) Number of gender ratio
 - b) Study of site with respect to other surrounding sites
 - c) Location of site
 - d) Study of geographical and geological conditions of site
3. Floor area ratio is the ratio of _____
 - a) Total floor area to total plot area
 - b) Total plot area to total floor area
 - c) Plinth area to site area
 - d) Site area to plinth area
4. Which of the following agency is responsible for urban planning and development?
 - a) National land commission
 - b) Ministry of home and cultural affairs
 - c) ministry of labour and resources
 - d) Ministry of works and human settlement
5. Compare the functional and aesthetic aspects of residential and industrial building.
6. Analyze the cultural factors that influence the planning of a site.
7. Distinguish between a Civil Engineer and an Architect.
8. What are the principles of landscape design?

PART B - (4 X16 = 64 marks)

09. (a) Explain in detail on how to integrate aesthetics and functions in architectural design. **(16)**

(OR)

- (b) List out the factors to be considered before the design of the buildings. Explain the same for a hospital building. **(16)**

10. (a) What are the layout regulations that are to be followed in the design of a layout? What will be the implications of violating the regulations? **(16)**

(OR)

- (b) How do you carry out the site planning survey before constructing a library building for a town? **(16)**
11. (a) What is anthropometrics? Explain with examples how anthropometrics could be used to determine the size and shape of rooms for human activities. **(16)**
- (OR)**
- (b) Discuss in detail how the planning concepts, inter-relationship of functions and safety standards can be applied to the design of a residential and commercial buildings. Will the location of site affect these factors? **(16)**
12. (a) Design a model residential building by incorporating the green building concepts. **(16)**
- (OR)**
- (b) Discuss briefly on urban renewal. Explain the concepts of public participation in urban renewal projects. **(16)**