D 12060 (Pages : 2) Name.....

Reg. No.....

FIFTH SEMESTER B.TECH. (ENGINEERING) [14 SCHEME] DEGREE EXAMINATION, NOVEMBER 2016

CE 14 502—BUILDING TECHNOLOGY—II

Time : Three Hours Maximum : 100 Marks

Part A

Answer any *eight* out of ten :

1. What is prefabricated structures ? What are the problem associated with prefabricated structures.
2. What are the different types of elevation in use ? Give their advantages and Disadvantages.
3. What are high rise buildings ? What are the requirements of safety in the such building ?
4. Why five escape is provided ? Where such escapes are provided ?
5. What are the criteria for firing acoustic in building ?
6. What are thermal comforts in building ? Why the thermal comforts are necessary in building ?
7. What are the lighting requirement of a college building having class rooms and office ?
8. What are different acoustic materials ? What are their uses ?
9. What are the building configuration for earthquakes resistance of a building ?
10. How to orient the building for good ventilation ?

(8 × 5 = 40 marks)

Part B

Answer according to choice :

11. (a) What are the differences between the passenger, and service elevation. What are the design consideration.

Or

(b) Give the importance of frammed in construction ? What are the advantages of prefabricated construction ? What are the advantages of ship form construction ?

12. (a) What precautionary measures should taken against origin and spread of five ? What are the uses of alarms and hydrants and describe different types.

Or

(b) Give the drawing of single and two pipe system of plumbing in highrise building by explaining salient features.

Turn over

13. (a) What are the orientation of other external factors useful in considering thermal comforts in a building ? Explain.

Or

(b) What are the mechanical ventilation systems provided in provision for ventilation. What factors responsible for lighting inside a building.

14. (a) Explain the importance of care against failure of building by alteration, improper maintenance and overloading with examples.

Or

(b) What are earthquake resistant constructions. Give the construction aspects. Give the configuration in giving strength in various directions.

(4 × 15 = 60 marks)