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(Pages : 2)

Name.....

Reg. No.....

**FIFTH SEMESTER B.TECH. (ENGINEERING) [09 SCHEME] DEGREE  
EXAMINATION, NOVEMBER 2014**

CE/PTCE 09 506—BUILDING TECHNOLOGY—II

Time : Three Hours

Maximum : 70 Marks

**Part A**

*Answer all questions.*

*Each question carries 2 marks.*

1. Mention any four types of connections in general.
2. List out the types of vertical transportation.
3. Define Hydrants.
4. Define "orientation" of buildings.
5. Define "ductility".

(5 × 2 = 10 marks)

**Part B**

*Answer any four questions.*

*Each question carries 5 marks.*

1. Explain any two types of structural systems with neat sketches.
2. Give a brief notes on fire resisting properties of materials.
3. List out the methods of thermal insulation.
4. Enumerate the criteria for acoustic environment.
5. Explain the basic principles of filler slab with its merits.
6. Write a brief notes on seismic strengthening of masonry structures.

(4 × 5 = 20 marks)

**Part C**

*Answer all questions.*

*Each question carries 10 marks.*

1. Write a brief notes on 'concreting' of various structural elements in general and list out the precautions taken place.

*Or*

2. Under what circumstances, prefabrication construction are preferred. Mention their merits.

Turn over

3. Enumerate the factors to be considered for fixing the capacity of a lift and the member of lifts to be provided in tall buildings.

*Or*

4. Write short notes on :

- (a) Slip form construction.                      (b) Escalators.  
(c) Fire escape.                                      (d) Reverberation.

5. Briefly explain the following two systems used for ventilation :

- (a) Extraction system.  
(b) Air supply system.

*Or*

6. Draw a typical drainage system in a two-storey building. Indicate the components and their functions.
7. What is 'daylight factor' ? How is it computed ? List out the requirements of good lighting.

*Or*

8. Sketches the general building configuration for different types of structures towards earthquake resistance. List out the precautions to be taken in general.

(4 × 10 = 40 marks)