

CIVIL
27/4/16 FN

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Question Paper Code : 52533

B.E/B.Tech. DEGREE EXAMINATION, APRIL 2016

Eighth Semester

Civil Engineering

CE 2045/CE 805/10111 CEE 44 – PREFABRICATED STRUCTURES

(Regulations 2008/2010)

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions.

PART – A (10 × 2 = 20 Marks)

1. Define modular co-ordination.
2. What is standardization ?
3. What are the types of prefabricated components ?
4. Define a shear wall.
5. What do you mean by disuniting of structures ?
6. Define 'Joint Flexibility'.
7. Name few structural connections.
8. What is an expansion joint ?
9. Define progressive collapse.
10. Explain equivalent design loads.

PART – B (5 × 16 = 80 Marks)

11. (a) (i) Enumerate the need of prefabrication. (8)
(ii) Explain the principle of prefabrication. (8)

OR

- (b) Discuss the process of production, transportation and erection of prefabrication. (16)

12. (a) Explain the behaviour of large panel construction with suitable sketches.

OR

- (b) Explain the behaviour of roof and floor slabs construction with suitable sketches.

13. (a) Explain a suitable design of cross section based on efficiency.

OR

- (b) Explain the salient features of joint flexibility. Discuss its importance.

14. (a) How do perform the design of expansion joints ?

OR

- (b) Explain with neat sketches, any two different structural connection.

15. (a) Discuss the codal provisions in the design for structures subjected to earthquakes.

OR

- (b) Explain a situation for occurrence of progressive collapse. How do you avoid progression collapse ?