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Question Paper Code : 21193

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2013.

Eighth Semester

Civil Engineering

CE 2045/CE 805/CE 1007/080100060 — PREFABRICATED STRUCTURES

(Regulation 2008)

Time : Three hours Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What are the advantages of prefabrication?
2. Explain Dimensional tolerance.
3. Explain the types of prefabrication.
4. What are the desirable properties of concrete and steel for prefabrication unit?
5. Explain different types joint.
6. Explain joint flexibility.
7. Describe the Ductility of joint.
8. What is meant by Expansion joint?
9. Explain Equivalent design loads.
10. Explain prefabrication on multi storey frames.

PART B — (5 × 16 = 80 marks)

11. (a) Explain briefly the general principle of prefabrication.

Or

(b) What are the desirable properties of concrete and steel for prefabrication unit?

12. (a) Explain the different types of production techniques adopted for making pre cast units.

Or

(b) Classify the structure of building based on the load distribution and briefly explain the different types of such prefabricated building.

13. (a) Describe with neat sketches the organization of a prefabrication plant for Manufacture of small element.

Or

(b) Discuss the necessity of disuniting of structures and explain in detail with sketch.

14. (a) Classify and explain with neat sketches the different types of joining of structures.

Or

(b) What are the essential requirements of joints in precast construction?

15. (a) Explain strong column and weak beam theory.

Or

(b) State and explain the equivalent load procedure.

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