Eighth Semester Examination – 2008

PREFABRICATION AND MODULAR COORDINATION

Full Marks – 70

Time: 3 Hours

Answer Question No. 1 which is compulsory and any five from the rest.

The figures in the right-hand margin indicate marks.

1. Answer the following questions: 2 × 10

(a) What do the following abbreviations stand for?

(i) FRP
(ii) CBRI
(iii) What is standardized prefabrication?

(c) What are the various types of deviation in shapes and sizes in modular coordination?

(d) What are the various prefabricated components used in a skeletal system of construction?

(e) What is partial prefabrication?

(f) State the recommendations of NBC, 1970, regarding modular coordination.

(g) What is the relevance of Modular Coordination in India?

(h) Define effectiveness or effective ratio of a building system.

(i) What are the difficulties faced due to deviation in modular coordination?

(j) What is modular coordination?

2. What is prefabrication? Classify Prefabricated components. 10

3. Explain Building systems. What are the different types of building systems. Explain each system briefly. 10
4. Write notes on: 5×2
   (i) Bearing Panel system
   (ii) Structural frame systems

5. Discuss the various systems of proportion. 10

6. Describe modular coordination and discuss its objectives and principles. 10

7. Write notes on: 5×2
   (a) Tapsia system
   (b) Prefabricated systems developed by CBRI, Roorkie.

8. What is the importance of prefabrication and modular coordination in the Indian context. 10