

**Total number of printed pages – 3**

**B. Arch**  
**PEAR 8407**

## **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 ration 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

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**Contd.**

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