

## ST 5002 Prefabricated Structures

### Important 2 Mark questions

#### Unit I

1. What is the need for prefabricated structures?
2. List the various Pre-Fabricated construction systems.
3. Describe the term prefabricated structure.
4. Enumerate the steps to control the deflection of prefabricated elements.
5. What is the significance of providing safety factors?
6. Give the different types of finishes adopted for precast elements.
7. What is meant by modular co-ordination?
8. Distinguish between site prefabrication and plant prefabrication.
9. What are the characteristics of materials used for construction of pre-fabricated structures?
10. List the advantages and disadvantages of prefabricated system.

#### Unit II

1. Write the list of connections is used in prefabricated structures.
2. Write short notes on chamfers?
3. Discuss the different types of joints.
4. How is two way slab fabricated?
5. Define long wall and cross wall in large panel building.
6. Write about the different precast concrete structural elements?
7. What is disuniting of prefabricated structure?
8. What is the need for the use of pre-fabricated structures?
9. Sketch column to column RC connection.
10. What is curtain walls?

#### Unit III

1. List out the roofing members.
2. Classify the prefabricated structural components.
3. What are the factors to be considered to analyse and design of floors?
4. Why the shear and Hexure is important in the beam?
5. What are the different types of floor slabs?

6. What are the different types of joining techniques/materials used in prefabricated structures?
7. Differentiate between a panel building and a framed building.
8. Give the limit for deflection when precast elements are subjected to short term loads.
9. Give the maximum allowable deflection limit for roof slabs under short term.
10. Define "large panel system".

#### **Unit IV**

1. Describe in detail about large panel construction.
2. What are the factors associated with curtain walls?
3. Discuss the uses of wall panels.
4. How is leakage controlled at the joints?
5. Write down some types of wall joints.
6. List the types of sealants used to prevent leakage in joints.
7. Differentiate between an open-drained joint and a face-sealed joint.
8. Give the classification of sandwich wall panels.
9. What is the need for an expansion joint in pre-cast structures?
10. Define shear wall and the loads to which its is subjected to.

#### **Unit V**

1. Describe roof trusses and roof panels.
2. What are the types of precast cylindrical shell and folded plate?
3. What are the advantages of shell roof?
4. Define bracing.
5. Define Hyper prefabricated shell.
6. What is the function of a corbel?
7. What are the advantages of cylindrical shells?
8. Write short note on wind bracing.
9. What are the various types of gantry systems used in transportation of prefabricated structures?
10. Distinguish between synclastic and anticlastic system.