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# ST 5002 Prefabricated Structures

## **Important 13 Mark questions**

### <u>Unit I</u>

- 1. What are the general specific requirements for planning and layout of prefabrication plant?
- 2. Discuss in detail about codal provision of prefabricated structure.
- 3. Explain the process of production, transportation and erection of prefabrication.
- 4. Describe in detail the concept of modular co-ordination and standardization in precast construction.
- 5. Explain the different stages in construction of pre-fabricating structures.

#### <u>Unit II</u>

- 1. Discuss in detail with sketches the different types of column to column connections used in framed precast reinforced concrete building.
- 2. Explain in detail about large panel construction with neat sketches.
- 3. Write short notes on:
  - (i) One way slab
  - (ii) Two way slab
- 4. Explain in detail the framed buildings with partial and curtail walls.
- 5. With neat sketch, briefly explain about the various types of connections adopted in precast construction.

#### <u>Unit III</u>

- 1. What are the types of joints in present construction? Also explain its behaviour.
- 2. What are the requirements of ideal structural joints? Explain different kinds of joints used in prefabricated structure.
- 3. List out the steps for analysis and design of hollow core slab with appropriate sketches.
- 4. Discuss in detail the ultimate strength calculations in shear and flexure for slabs.
- 5. Explain in detail the manufacture of roof slab. Also explain the precautions taken during the manufacturing process.

Results and Many more...

#### <u>Unit IV</u>

- 1. What are the factors affecting the stability of wall panels, explain in detail?
- 2. Explain the different types of wall panels and blocks.
- 3. Describe in detail the pattern of load transfer from floor to wall panels.
- 4. Discuss the different types of joint sealants used in precast buildings. Narrate the advantages and disadvantages of the sealants.
- 5. Explain in detail the construction of pre-fabricated R.C roof trusses and roof panels.

#### <u>Unit V</u>

- 1. Briefly explain the various equipment used in the erection of prefabricated industrial building.
- 2. Discuss the design procedure for corbels and folded plates.
- 3. Give a detailed account about the design of wind bracing in a precast building.
- 4. Explain in detail the construction of pre-fabricated cylindrical, folded plate and hyper shells in industrial structures.
- 5. Explain in detail about prefabricated shell roof structures.