



IES COLLEGE OF ENGINEERING, CHITTIAPPILLY

DEPARTMENT OF CIVIL ENGINEERING

QUESTION BANK

CONSTRUCTION TECHNOLOGY AND MANAGEMENT

MODULE 1

1. Write a short note on manufacturing process of cement.
2. Explain any three laboratory tests on cement and its IS specifications.
3. Write a note on quality of water used for concrete.
4. Explain the various types of admixtures and their use
5. Explain bulking of fine aggregate
6. State the IS specification for initial and final setting time of OPC
7. Discuss the role of plasticizers in concrete
8. Differentiate between fibre board and particle board.
9. Discuss the chemical composition of cement
10. Explain gradation of aggregates.
11. Discuss the significance of gradation of aggregates.

MODULE 2

1. Explain briefly the manufacturing process of concrete.
2. Explain a method to assess the workability of concrete. Also highlight the merits and demerits of the test.
3. Explain the factors affecting bleeding and segregation of concrete.
4. Explain the various factors affecting strength of concrete.
5. Discuss the various objectives of plastering
6. Explain scaffolding and its types
7. Explain various types of arches with neat sketches



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8. what are properties of concrete?
9. explain tests for strength of concrete
10. explain RCC and steel framed structures

MODULE 3

1. Discuss the purpose of providing damp proof course.
2. Distinguish between plastering and pointing.
3. Explain the various types of pointing with neat sketches.
4. State the advantages and disadvantages of framed structures.
5. Discuss the advantages and disadvantages of prefabricated construction
6. Explain scaffolding and its types
7. Building failures – general reasons
8. Explain Construction 3D printing
9. what is slipform
10. explain filler slab technology

MODULE 4

1. explain Detailed Project Report – contents
2. explain pre-project phase, project phase, post-project phase,
3. what is Tendering
4. explain stages intendering
5. explain types of contracts
6. differentiate item rate contract, lumpsum contract
7. what is percentage rate contract
8. note on turnkey contracts
9. what is concession contracts
10. explain BOT



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MODULE 5

1. what is Workbreak down structure
- 2.explain Types of Schedules
- 3.Differentiate Construction schedule, Material schedule,
- 4.what is labour schedule and equipment schedule
5. explain financial schedule
6. explain Bar chart,Mile Stone Charts
- 7.note on Networks, Network representation – Activity on Node (AoN) Diagram
- 8.Network analysis – Critical Path Method (CPM), Programme
9. explain Evaluation and Review
- 10.Technique(PERT) – concepts