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CN 5001 Advanced Concrete Technology

Important 13 Mark Questions

Unit I

1. What is meant by hydration of cement? Explain the physical test carried out on cement to test its normal consistency and compressive strength.
2. How aggregates can be graded? Explain the determination of fineness modulus of aggregates? What are the effects of coarser fraction aggregates?
3. Discuss the factors influencing the choice of technology and construction methods with reference to the planning stage.
4. What are the different types of scheduling? Explain with the help of a suitable example, the method of preparing bar (Gantt) charts.
5. Discuss and analyse the basic concept in the development of construction plans.

Unit II

1. Explain the properties of fresh concrete and relevant tests to be performed to determine them.
2. How creep, shrinkage and durability of concrete is determined?
3. Analyse the pro and cons of various project scheduling techniques.
4. Envisage the improvement process of scheduling with cost and time control measures.

Unit III

1. Discuss in detail about the statistical quality control of concrete.
2. Explain in detail about project budget.
3. Discuss on the components of financial accounts.
4. Write brief notes on
 - (i) Cost control
 - (ii) Schedule control
5. Discuss the various accounting systems used in a construction.

Unit IV

1. What are the quality and safety concerns in construction? How the quality and safety concerns can be effectively addressed?
2. Analyse the role of TQM on assuring quality and safety of construction.

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3. Explain the statistical quality control with sampling by attributes.
4. Discuss some of the safety requirements of construction industries.
5. Discuss in detail about geo-polymer concrete and self-compacting concrete.

Unit V

1. Explain different methods of transportation, placing and curing of concrete.
2. Explain hoe the information can be organized using computers in detail.
3. Discuss in detail about the functions of Project Management Information System.
4. Discuss the various types of project information and how these information can be managed.
5. How effectively the information can be handled in a computerized organization.