

BHARATI VIDYAPEETH INSTITUTE OF TECHNOLOGY

Question Bank (K-Scheme)

Name of subject: Concrete Technology

Unit Test: II

Subject code: 313322

Course: CE

Semester: III

Unit 3 (Concrete and its testing)

2 Marks

1. Enlist the tests that are conducted for testing of Concrete?
2. State the limitations of Rebound Hammer Test.
3. State the meaning of NDT. Enlist the methods of NDT.

4 Marks

1. List the various methods of NDT and Explain any one in brief with sketch.
2. Explain the Non-Destructive testing of concrete.
3. Explain Ultrasonic Pulse Velocity test with appropriate sketch.

Unit 4 (Quality Control of Concrete)

2 Marks

1. Enlist any four works done by the supervisor on site.
2. Enlist various concrete operations in sequence.
3. Give two point Comparison between volume batching and weight batching.
4. What is the Significance of compaction.
5. State any four requirement of good formwork.
6. Write methods of curing.

4 marks

1. Enlist various concrete operations in sequence and explain any one in details.
2. Write the precautions to be taken while transporting concrete on site.
3. State the effects of under compaction and over compaction on properties of concrete.
4. Explain the different methods of curing.
5. Draw neat and labelled sketch of types of joints provided in concrete with their necessity.
6. State the procedure to join the old and new concrete with neat sketch.

7. Unit 5 (Admixture in Concrete and Special concrete)

2 Marks

1. Define admixture used in Concrete.
2. State the Purpose of using admixture in concrete.
3. State the advantages of air entering admixtures.
4. Define the following special types of concretes: a) Fiber Reinforced Concrete. b) High performance concrete. c) Self compacting concrete. d) Aerated concrete.
5. Write the meaning of RMC.

4 marks

1. Differentiate between retarding and accelerating admixture s with following points: a) Hydration process b) Setting time c) Weather condition d) Use.
2. Explain Ready-mix concrete with its uses.
3. Write advantages and disadvantages of vacuum dewatered concrete floor. Define Super plasticizer? State its uses and working method.
4. Write short note on Prestressed Concrete.
5. Write short note on Shotcrete and draw its system.