

EB-112

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**B.E. IV Sem. Civil (CGPA)
Examination-2011-12
CONCRETE TECHNOLOGY**

Paper : CE-401

Time Allowed : Three Hours

Maximum Marks : 60

Note : Attempt all the six questions. There is internal choice in each question. Assume suitable data if necessary.

Q.1. Write brief note on ingredients of concrete. 10

Or

Explain physical properties of portland cement.

Q.2. What are the requirements of workability? Describe briefly. 10

Or

Define effect of water-cement ratio with respect to durability of concrete.

Q.3. Write down the acceptance criteria for concrete as per I.S. code. 10

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Or

Describe basic considerations for concrete mix design.

Q.4. Write a short note on ready mix concrete.

10

Or

Explain ultrasonic pulse velocity method.

Q.5. Define ferro cement concrete. What are its advantages and disadvantages?

10

Or

What do you understand by fibre reinforced concrete?

Q.6. Write short note on following: (Any two)

- i) Repair and cracks in concrete.
- ii) Guniting of concrete.
- iii) Under water concreting.
- iv) Application of ferro cement.