

B.Tech. Civil (Construction Management)

Term-End Examination

June, 2011

**ET-522 : CONCRETE TECHNOLOGY &
CONSTRUCTION TECHNIQUES**

Time : 3 hours

Maximum Marks : 70

Note : Answer any five questions. All questions carry equal marks. Support your answer with neat sketches, wherever necessary.

1. (a) Explain manufacturing process of cement in brief. 7
- (b) Enlist various parameters based on which quality of water for making concrete is checked. 7
2. (a) What is an admixture ? Write a short note on air entraining admixtures ? 7
- (b) What is meant by workability of concrete ? Enlist factors that affect workability of concrete. 7

3. (a) What is meant by creep of concrete ? What are the factors affecting creep of concrete ? 7
- (b) Discuss how permeability of concrete may affect durability of concrete ? 7
4. (a) Explain how compressive strength of concrete is determined ? 7
- (b) Enlist various steps in concrete mix design as per code. 7
5. (a) What is prepacked concrete ? Write a condition when it can be used with advantage. 7
- (b) What are various compounds in OPC ? Discuss their strength development. 7
6. (a) What is Ready Mixed Concrete ? What precautions are taken while transporting it ? 7
- (b) Enlist various methods of sheet piling. Explain any one method briefly. 7
7. (a) Write advantages of precast concrete construction. 7
- (b) What is meant by Soil Stabilization ? Explain any one method for it in brief. 7
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