

B.Tech. Civil (Construction Management)

Term-End Examination

December, 2013

**ET-522 : CONCRETE TECHNOLOGY AND
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.

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- (a) What are the various types of cement ? 7
Explain properties of any one type in brief.
- (b) Explain the soundness test for cement. 7
- (a) What is meant by grading of aggregates ? 7
Why is it important for concrete ?
- (b) Explain various steps in manufacture of 7
cement briefly.
- (a) What is an admixture ? Write the names of 7
various types of admixtures.
- (b) What is meant by workability of 7
concrete ? What are the factors affecting
it ?
- (a) What is meant by curing of concrete ? 7
Explain water curing.
- (b) What are the various factors affecting 7
strength of concrete ? Discuss the role of any
one of these briefly.

5. (a) Describe Non-Fines concrete briefly.
(b) What is polymer impregnated concrete ?
How is it different from normal concrete ?
6. (a) Explain under water concreting in brief.
(b) Why do we need ready mixed concrete ?
Write various precautions taken while transporting it.
7. Write short notes on the following : 3½x4
(a) Sheet piling
(b) Scaffolding
(c) Compaction of concrete
(d) Pre-cast concrete construction
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