

**B.Tech. Civil (Construction Management)****Term-End Examination****December, 2015****ET-522 : CONCRETE TECHNOLOGY AND  
CONSTRUCTION TECHNIQUES***Time : 3 hours**Maximum Marks : 70*

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

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1. (a) List out any seven types of cement and state their uses. 7
- (b) State the functions of admixtures. 7
2. (a) List out the stages of production of concrete and discuss them in brief. 7
- (b) State the methods of transportation of concrete and discuss them in brief. 7
3. (a) Why does concrete crack ? How are cracks in concrete repaired ? Explain. 7
- (b) State the classification of light weight concrete and discuss its advantages. 7

4. (a) State the factors affecting workability and discuss them in brief. 7
- (b) Discuss the precautions observed in cold weather concreting. 7
5. (a) Name the methods of deep excavations in waterlogged soils and explain any one. 7
- (b) State the classification of piles. 7
6. (a) What are scaffolds ? State the types of various scaffolds. 7
- (b) What are caissons ? Where are these used ? Classify the caissons and discuss them briefly. 7
7. (a) Explain the procedure of sinking of well. 7
- (b) List out the various types of vibrators for compaction of concrete. State the effect of excess use of vibrator. 7
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