

**B.Tech. Civil (Construction Management)**

**Term-End Examination**

00482

**December, 2016**

**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) What is hydration of cement ? Explain clearly. 7
- (b) What are the different tests used for cement ? Explain any one of them. 7
2. (a) What are the functions of admixtures ? 7
- (b) What are the factors affecting workability of concrete ? 7
3. (a) What are the different types of compaction used for concrete ? 7
- (b) What are the factors affecting shrinkage of concrete ? 7

4. (a) Write about Rebound-Hammer test. 7
- (b) What are the methods of concrete mix design ? Explain any one of them. 7
5. (a) Write about high density concrete. 7
- (b) Write about underwater concreting. 7
6. (a) What are the different types of sheet piling ? Explain any one of them. 7
- (b) What are the types of caissons ? Explain briefly. 7
7. (a) What are the requirements of a good formwork ? 7
- (b) What are the methods of soil stabilization ? Explain any one of them. 7
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