

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

**Term-End Examination**

00268

**June, 2016**

**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 answers with neat sketches wherever necessary.

---

1. (a) Classify aggregates on the basis of source, size and shape. 7
- (b) List out the tolerable concentration of impurities in water for concrete mix. 7
2. (a) Draw a neat sketch of tilting drum mixer. State the sequence of charging the mixer. 7
- (b) What do you mean by workability of concrete ? List out the tests for workability and explain any one of them. 7
3. (a) What is fibre reinforced concrete ? List out the types of fibres. 7
- (b) Write down the steps of I.S. method of mix design of concrete. 7

4. (a) Classify natural and artificial light weight aggregates. 7
- (b) State the precautions observed in hot weather concreting. 7
5. (a) What is Ready Mixed Concrete (RMC) ? State the types of RMC and discuss its advantages. 7
- (b) What is grouting ? State the types of grouting and discuss any one. 7
6. (a) State the requirements of a good formwork. 7
- (b) Draw a neat sketch of a well foundation and label it. 7
7. (a) State the difficulties met during well sinking. Explain the remedies for them. 7
- (b) State the precautions taken in handling and erection of precast structures. 7
-