

B.Tech. Civil (Construction Management)

Term-End Examination

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December, 2017

**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) What are the different tests conducted on cement ? 7
- (b) Write about grading of aggregate. 7
2. (a) Write about the functions of admixtures. 7
- (b) What are the different tests conducted for workability ? Write about any one test for workability. 7
3. (a) What are the factors affecting modulus of elasticity ? 7
- (b) Write about chemical attack on concrete. 7

4. (a) What are the methods of concrete mix design ? 7
- (b) Write about light weight concrete. 7
5. (a) Write about ready mix concrete. 7
- (b) Write about diaphragm wall construction. 7
6. (a) What are Caissons ? Write about different types of caissons. 7
- (b) What is Formwork ? What are the different types of formwork ? 7
7. (a) What is Soil Stabilization ? What are the different methods of soil stabilization ? 7
- (b) What is Precasting technique ? Explain. 7
8. Write short notes on any *four* of the following : $4 \times 3 \frac{1}{2} = 14$
- (a) Bogue Compounds
- (b) Use of Seawater for making Concrete
- (c) Mixing of Concrete
- (d) Modulus of Rupture of Concrete
- (e) Polymer Concrete
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