

B.Tech. Civil (Construction Management)**Term-End Examination, 2019****ET-522 : CONCRETE TECHNOLOGY AND
CONSTRUCTION TECHNIQUES****Time : 3 Hours]****[Maximum Marks : 70**

Note : Answer any five questions. All questions carry equal marks.

1. Discuss Classification of cements. What are different types of cements available in market ? Explain their applications with example.
[14]
2. (a) What is grading of aggregate ? Discuss the factors governing the good aggregate grading.[7]
(b) Discuss mechanism of Alkali-aggregate reaction.
[7]
3. (a) Ho do you classify the admixtures ? [7]
(b) Explain various functions of admixtures. [7]

4. Explain the types of air entraining agents and also discuss the factors affecting the amount of Air Entrainment in detail. [14]
5. What are the factors affecting workability of Concrete and discuss all of them in brief ? [14]
6. What is the importance of Curing of concrete ? Explain in brief various methods of Curing available. [14]
7. (a) Discuss various methods of concrete placement for underwater concreting with suitable examples. [7]
- (b) What is Vacuum Processed Concreting and discuss its advantages ? [7]
8. Write short note on the following : [3½×4=14]
- (a) Prepacked Concrete
- (b) Shotcrete
- (c) Types of Caissons
- (d) Frost Damage

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