

24199

B.Tech. (Civil) 4th Semester F-Scheme

Examination, May-2019

CONSTRUCTION & CONCRETE TECHNOLOGY

Paper-CE-210-F

*Time allowed : 3 hours]*

*[Maximum marks : 100*

*Note : Attempt any five questions. All questions carry equal marks.*

1. Write short note on the following : 5×4=20
  - (a) Define event and activity.
  - (b) Bulking of aggregate
  - (c) Retarders and accelerators
  - (d) Basic consideration for concrete mix design.
  - (e) Crushers

**Section-A**

2. What is Milestone Chart ? How does it is different from a bar chart ? How can a milestone chart be developed into a network ? 20
3. What do you understand by Critical path ? How it is determined ? 20

**Section-B**

4. (a) What are the different types of cement ? Explain. 10

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- (b) What are the different factors effecting workability of concrete ? 10
5. (a) What are the various methods for determining the strength of aggregate ? 10
- (b) What is the role of water cement ration on the strength of concrete ? 10

### Section-C

6. What is USBR method of mix design ? What is the data requird to be collected for mix design ? 20
7. What are various methods for proportioning a concrete mix ? Explain each of them in detail. 20

### Section-D

8. What are the various steps to be involved for the construction of bridge ? Explain in detail. 20
9. Explain various heavy equipments used for construction of heavy building. 20