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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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24199

- (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 required 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

24199