

18222(M)

B. Tech 6th Semester Examination

Concrete Technology (CBS)

CE-606

Time : 3 Hours

Max. Marks : 60

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : Attempt only one question from each section. Each question carry 10 marks. Question no. 9 is compulsory which is of 20 marks.

SECTION - A

1. Explain various Ingredients of cement. (10)
2. Explain factors affecting workability of concrete. (10)

SECTION - B

3. (a) Explain Effect of grading of aggregates on strength of concrete. (5)
(b) Explain application of high performance concrete. (5)
4. (a) Explain Fly ash and Blast furnace slag as admixture. (5)
(b) Explain the use of Plasticizers in concrete. (5)

SECTION - C

5. Explain the procedure of doing mix design of Ready mixed. (10)
6. Explain fibre reinforced cement concrete. (10)

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SECTION - D

7. Explain Polymer concrete, its constituents and uses. (10)
8. Explain Non destructive test on concrete by ultrasonic pulse velocity Test. (10)

SECTION - E

9. Write a short note on the followings:
 - (a) Effect of temperature on Hydration of cement.
 - (b) Hot weather concrete.
 - (c) Effect of temperature on setting time.
 - (d) Bulking of sand.
 - (e) Function of Ferro cement reinforced concrete..
 - (f) Quick setting cement.
 - (g) Advantages of using Fibre reinforced concrete.
 - (h) Soundness of cement.
 - (i) Membrane curing method.
 - (j) Self compacting concrete. (2×10=20)