

Total Pages—3

V—Sem/CIVIL/2015(W)

(2)

CONCRETE TECHNOLOGY

(Code : CET - 504)

Full Marks : 70

Time : 3 hours

Answer any five questions

Figures in the right-hand margin indicate marks

- 1. (a) What is 43 grade cement ? 2
- (b) What are the various properties of Admixtures ? Describe them briefly. 5
- (c) What is a "mix design" of concrete ? Describe various factors influencing the choice of Mix proportions in design mix. 7
- 2. (a) What is the effect of water cement ratio on strength of concrete ? 2
- (b) Describe causes and effects of corrosion of steel reinforcement in R.C.C. work. 5

(Turn Over)

- (c) Explain different processes of batching and mixing of materials in production of concrete. 7
- 3. (a) What do you mean by M30 concrete ? 2
- (b) Write down the advantages and disadvantages of concrete. 5
- (c) What is workability ? Explain any two methods of testing workability of concrete. 7
- 4. (a) What do you mean by hydration of cement ? http://www.sctevtonline.com 2
- (b) Write down the advantages of quality control of concrete. 5
- (c) Explain any one method of repairing cracks in concrete. 7
- 5. (a) Define shrinkage of concrete. 2
- (b) What are the physical properties of cement ? Describe any one. 5

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(Continued)

(3)

- (c) Describe briefly two methods of curing of concrete. 7
6. (a) What is gunniting? 2
- (b) Write down the functions of admixture. 5
- (c) Explain properties of concrete in green stage. 7
7. (a) What is efflorescence? 2
- (b) Describe briefly types of deterioration of concrete. 5
- (c) Write down the characteristics of good aggregates. 7

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