END SEMESTER/ RE-TEST EXAMINATION, 2020

Semester: 5th

Course Code: CT-502

Course Title: Concrete Technology

Time: 3Hrs. Full Marks: 70



(2)

PART -A (25 Marks)

Multiple Choice Questions

1. Which cement contains high percentage of C₃S and less percentage of C₂S? a) Rapid Hardening Cementb) Ordinary Portland Cementc) Quick Setting Cementd) Low Heat Cement (2)2. Which cement is used to store for longer duration in wet climatic conditions? a) Expansive Cementb) Ordinary Portland Cementc) Hydrophobic Cementd) Quick Setting Cement (2)3. What is the size of fine aggregates? a) 4.75mmb) < 4.75mmc) > 4.75mmd) 12mm (2)4. Bulking with increase in moisture. a) Increaseb) Decreasec) First increase then decreased) First decrease then increase (2)5. What do you mean by admixtures? a) Ingredients which are added to in cement before or after concrete mix b) Ingredients which are added to make aggregates healthier c) Ingredients added in cement to make it shinier d) Ingredients added in concrete to make good workability (2)6. Which of the following statement is incorrect about the function of admixtures. a) To accelerate the initial set of concrete, to speed up the rate of development of strength at early ages b) To enhance the workability

d) To retard the initial set, to keep concrete workable for a shorter time for placement

c) To reduce the segregation in grout and concrete mixers

7. Admixtures which cause early setting, and hardening of concrete are called	(2)
8. Workability of concrete is directly proportional to	(2)
9. Compound of cement liberates highest heat is	(2)
10. Chemical composition that has highest content in OPC is	(2)
11. Concrete placed in cold weather will take time to gain strength.	(2)
12. A lower water cement ratio will leads to	(2)
13. The meaning of '20' in M20 grade concrete is	(1)
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PART B (Marks 45) Answer any Five Question	
Answer any Five Question 14. Write short notes on	(9)
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14. Write short notes on	(9) (9)
14. Write short notes on a) Yield of Concrete b) Grades of concrete c) Curing	
14. Write short notes on a) Yield of Concrete b) Grades of concrete c) Curing 15. Write down about the whole manufacturing process of cement.	(9)
Answer any Five Question 14. Write short notes on a) Yield of Concrete b) Grades of concrete c) Curing 15. Write down about the whole manufacturing process of cement. 16. Define workability. What are the various factors affecting the workability.	(9) (9)