

Total No. of Questions : 8]

[Total No. of Printed Pages : 2

Roll No.....

MVCT/MBCT/MVCP-102**M.E./M.Tech. I Semester**

Examination, December 2017

Construction Material**Time : Three Hours****Maximum Marks : 70**

- Note:** i) Answer any five questions.
ii) All questions carry equal marks.

- What are admixtures? Describe the effect of following admixtures on cement concrete and give three examples of each
 - Retarders
 - Water proofers
 - Accelerators
- What is polymer concrete? Briefly describe its types and applications in construction industry.
- What are the factors influencing the Strength of Concrete? Also write your comments on the statement that- "One of the important factors affecting the modulus of elasticity of concrete is the strength of concrete".
- What is ready mixed concrete? How is it manufactured and transported? Also state the advantages and disadvantages of ready mixed concrete.

[2]

- Discuss Durability of Concrete. Also explain impact of W/C ratio on Durability.
 - Why is permeability of concrete of importance with respect to durability?
- What is Concrete Mix Design? Discuss the various factors influencing the choice of Mix Design.
- Explain classification of construction materials.
 - Discuss in detail the micro structure of any two construction materials.
- Write short notes on following:
 - Curing of Concrete
 - High-Performance Concrete
 - Light Weight Concrete
 - Fibre Reinforced Concrete

165