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

Examination, June 2017

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

- Note:** i) Answer any five questions.
 ii) All question carry equal marks.
 iii) Assume suitable data if missing.

1. a) Define the following: any five
 i) Density ii) Bulk density
 iii) Density index iv) Specific weight
 v) Porosity vi) Void ratio
 b) Write short notes on the following:
 i) Refractoriness
 ii) Heat conductivity
 iii) Selection of building materials
 iv) Fire resistive materials
2. a) What are the characteristics of good bricks? Describe the tests performed to check the quality of bricks.
 b) What are the initial and final setting times of cement? What is their importance? What do you mean by normal consistency? What is its significance? How is it tested?
3. a) What is meant by workability of concrete? How is it tested in field and in laboratory?
 b) Write notes on following
 i) Segregation ii) Bleeding
 iii) Curing

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4. a) What is bulking of sand? How does it affect concrete mix?
 b) What is fineness? How would you find the Fineness modulus value of coarse and fine aggregates?
5. Define following:
 i) Target mean strength
 ii) Controlled concrete
 iii) Compacting factor
 iv) Aggregate-cement ratio
 v) Water-cement ratio
6. Briefly describe the properties and uses of following materials
 a) Heat insulating materials
 b) Sound proofing materials
 c) Water proofing materials
 d) Sand-lime bricks
7. Write notes on:
 a) Ferrocement
 b) Fibre reinforced concrete
 c) Light weight concrete
 d) Heavy weight concrete
8. What is Quality Control of Concrete Define various non-destructive testing to performed.

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