No. of Printed Pages : 2

ET-581(A)(S)

B.Tech. Civil (Construction Management)

Term-End Examination

June, 2017

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ET-581(A)(S) : TESTING FOR QUALITY CONTROL

Time : 3 hours

Maximum Marks: 70

- **Note :** Attempt any **five** questions. All questions carry equal marks.
- 1. (a) What are the factors which affect the test strength of concrete ? Explain in detail any one factor.
 - (b) What do you understand by Rebound Principle ? Explain and differentiate it from Indentation Principle.
- 2. How do you sample concrete ? Explain its procedure. What are the acceptance and rejection criteria for the same ?
- **3.** (a) Explain the two methods of impermeability test for AC sheets.
 - (b) Explain the tests for block boards for determining the dimensional changes caused by humidity and also resistance to water.

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- 4. (a) Name the various tests to be conducted for testing clay bricks. Describe any one test in detail.
 - (b) Write a short note on the compression test of timber, in parallel to grain and perpendicular to grain positions.
- 5. Discuss the significance of determining the standard consistency of cement and describe the method of determining the same. Give a neat sketch of the apparatus.
- 6. Name the various tests for particle size and shape of aggregates. Describe any one test in detail. Also give acceptable range of test parameters.
- 7. Write short notes on any *four* of the following :
 - (a) Abrasion Test
 - (b) Turbidity Test
 - (c) Heat of Hydration
 - (d) Flow Test of Concrete
 - (e) Testing of Admixtures for Chloride

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 $4 \times 3\frac{1}{2} = 14$

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