

Code No: RT22015

R13

SET - 1

II B. Tech II Semester Supplementary Examinations, November-2017 CONCRETE TECHNNOLOGY

(Civil Engineering)

Time: 3 hours Max. Marks: 70

Note: 1. Question Paper consists of two parts (Part-A and Part-B)

2. Answer **ALL** the question in **Part-A**

3. Answer any **THREE** Questions from **Part-B**

PART -A

- 1. a) Explain the Fineness of cement?
 - b) What is the Effect of time and temperature on workability?
 - c) Write briefly on Flexure tests?
 - d) Explain about Shrinkage?
 - e) What are the Factors in the choice of mix proportions
 - f) Write the Properties of polymer concrete

PART-B

- 2. a) Explain process of Hydration of cement?
 - b) Explain in detail the heat of hydration of Bougue's compounds
- 3. a) Explain workability of concrete?
 - b) Explain procedure for determination of workability of concrete using Flow table with neat diagram.
- 4. Explain various steps involved in evaluation of compressive strength of concrete from preparation of sample to testing
- 5. a) Describe the laboratory test for measurement of drying shrinkage of concrete.
 - b) Explain time dependent deformation in concrete subjected to sustained load
- 6. a) Explain what is mix design and its practical necessity.
 - b) Explain statistical quality control of concrete. Explain common terminology used in statistical evaluation of concrete
- 7. a) Explain salient features of light weight concretes
 - b) Explain factors to be considered in the fibre reinforced concrete

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