

II B. Tech II Semester Supplementary Examinations, Dec – 2015
CONCRETE TECHNOLOGY
(Civil Engineering)

Time: 3 hours

Max. Marks: 70

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- 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**
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PART -A

1. a) Explain the Setting time of cement?
- b) What is Workability
- c) Write about Tension tests?
- d) Explain about Creep of concrete?
- e) Write briefly about Quality Control of concrete
- f) What are the Factors affecting properties of F.R.C?

PART -B

2. Explain dry process of manufacturing the cement with neat diagram. Explain advantages over the wet process
3. a) List out various tests to measure workability of concrete.
b) Explain the significance of the tests on concrete at fresh state while we are interested only in concrete at hardened state?
4. a) Explain Maturity concept of concrete?
b) Discuss the Abrams water/cement ration law and its significance. How strength of concrete is estimated by w/c ratio law.
5. a) Explain phenomenon of creep in concrete.
b) Explain measurement of creep in creep with loading diagram.
6. Explain in detail the various steps involved in designing concrete mixes using I.S.I method.
7. a) Explain salient features of Sulphur infiltrated concretes.
b) Explain applications of various sulphur-infiltrated concrete

