

R16

Code No: 135AD

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech III Year I Semester Examinations, October - 2020

CONCRETE TECHNOLOGY

(Common to CE, CEE)

Time: 2 Hours

Max. Marks: 75

Answer any five questions
All questions carry equal marks

- 1.a) Write a short note on Portland slag extra rapid hardening cement. [8+7]
b) Discuss briefly about standard consistency test.
- 2.a) Discuss briefly about flow table test.
b) Explain the effect of flyash on concrete. Discuss. [7+8]
- 3.a) Explain the abrasion test of aggregate test in detail.
b) Discuss in detail about alkali aggregate reaction. [8+7]
- 4.a) Explain briefly about thermal preparation of aggregates.
b) Discuss briefly about specific surface and surface index. [7+8]
- 5.a) Describe the compacting factor test for determination of workability.
b) Discuss about bleeding in detail. [8+7]
- 6.a) Write down about weight batching briefly.
b) Write down about machine mixing briefly. [8+7]
- 7.a) Compare cube and cylinder strength. Discuss in detail.
b) Discuss about indirect tension test method. [8+7]
8. Discuss briefly about the sulphur infiltrate concrete. [15]

---ooOoo---