Government College Of Engineering, Amravati Applied Mechanics Department

Class Test-II Date-25/01/17 Course Code: - CEU 404 CONCRETE TECH.

Total Marks-15 Time-1 hr

Q.1	Define consistency of cement. Explain laboratory test for consistence Cement. Draw sketch of the apparatus required for test.	y of 05
Q.2	Write application of i) Quick setting cement ii) sulphte resisting cement	02
Q.3	Write in detail the permissible limits for solids in water as IS 456 -2000	04
Q.4	Explain any TWO of following. a) Absorption and moisture content of aggregate	
	b) strength of sandc) Bulking of sand	04

Government College Of Engineering, Amravati Applied Mechanics Department

Class Test-II Date-18/031/17

Course Code: - CEU 404 CONCRETE TECH.

Total Marks-15 Time-1 hr

Q.1 Define admixture. Write any five function of admixture. 03 Q.2 Design a concrete mix of M30 grade using fly ash and following data a)Grade designation - M30 b)Type of cement-OPC 43 08 c)Maximum nominal size of aggregate-20mm d) Minimum cement content- 320 Kg/m³ e)Max.water cement ratiof)workability- 100mm slump g)exposure condition- severe (for RCC) h)Method of concrete placing – pumping i) Degree of supervision- good i)Type of aggregate- crushed angular aggregate k)Max.cement (OPC) content- 450 Kg/m² 1) chemical admixture type- superplasticizer m) Type of mineral admixture: fly ash conforming to Is 3812(part I) Sp. gravity FA - 2.74 Q.3 Explain any ONE of following. Sp gravity flyam 2.2 04 Assume fly ash as goil. of cementious material. (a) compaction by vibration b) transportation of fresh concrete

Class Test 2

Name of Programme: B. Tech Civil Engineering (IVth Sem)	4 4 10
Name of Course: Concrete Technology (CEU404)	Date: 06/03/2018
Time Allowed: 1 hr	Maximum Marks: 15
Q1. Enlist different types of admixtures. Explain Super-pla	asticers in detail with mechanism (5)
Q2. Define Workability. Describe factors affecting Workal	
on or	
Q2. Explain IS code method of Concrete Mix Design	(4
O3. Write Short note on :	
a) Batching of Materials	(2
b) Curing of Concrete	(2
c) Ready Mix Concrete	2, 60/10
Ready Mix Concrete	6