Total	No.	of	Questions -	[4]
-------	-----	----	-------------	-----

G.R. No.	
	1

Total No. of Printed Pages -01 U218-115(TL)

OCTOBER 2018/ IN-SEM (T1)

S. Y. B. TECH. (CIVIL 3) (SEMESTER - I)

COURSE NAME: CONCRETE TECHNOLOGY **COURSE CODE: CVUA21175** (PATTERN 2017) Time: [1 Hour] [Max. Marks: 30] (*) Instructions to candidates: Answer Q.1 OR Q.2 and Q.3 OR Q.4. Figures to the right indicate full marks. 3) Draw sketches whenever required Q.1) a) What are the different types of cement? Explain any two of them in details b) What is alkali aggregate reaction and their effect on quality of concrete? [6 marks] c) Write initial & final setting times of cement. Sate their importance [4 marks] OR Q.2) a) What is Hydration of cement and Explain factors affecting hydration of [6 marks] b) Write down six different functions of admixtures? [6 marks] c) What are the different classifications of aggregate according to the shape? [4 marks] Q.3) a) Define workability and explain any four factors affecting workability. [6 marks] b) Explain in detail of any two tests for Fresh Concrete. [4 marks] c) Evaluate the reasons for shrinkage of concrete. [4 marks] Q.4) a) What are the remedial measures to avoid: i. Segregation; ii. Workability (Minimum 3 points each) [6 marks]

- b) What is curing? Which are the methods of curing? Explain any one in brief
 [4 marks]
- c) Discuss the following tests for concrete: (i) Flow test (ii) slump test

[4 marks]