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Code No: 125EP

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech III Vear I Semester Examinations November/December - 2017

	CONCRETE TECHNOLOGY (Common to CEE, CE) Max. M.	Iarks: 75	
Note	This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in Part consists of 5 Units. Answer any one full question from each unit. Each question and may have a, b, c as sub-questions. PART - A (2)		
1.a) b) c) d)	What does the grade of cement indicate? What are the merits and demerits of gap graded aggregate. For which type of mix do you use Vee-Bee test? What are the units of measure What is the simple test for suitability of water as per IS 456 code?	[2] [3] ments? [2] [3]	
e) f) g) h) i) j)	Define the Abram's law. What are the different types of Shrinkage of concrete? Define the term 'Durability' of concrete? Differentiate between characteristic mean strength and target mean strength in mix design. What is Cellular concrete? Differentiate between RCC and Fibre reinforced concrete.	[2] [3] [2] concrete [3] [2] [3]	
	PART - B (50) Marks)	
2.a) b)	Explain the chemical composition of ordinary Portland cement. What is bulking of fine aggregate? Explain how bulking chart is prepared? OR	[4+6]	
3.a) b)	Explain in detail about surface acting admixtures. Determine the fineness modulus of following aggregate sample of 5 kg.	[5+5]	
	S.No. Sieve size Weigh retained in grams 1	P6	

