

COLLEGE OF ENGINEERING, PUNE

(An Autonomous Institute of Government of Maharashtra.) SHIVAJI NAGAR, PUNE - 411 005

END Semester Examination

(CE-205) Concrete Technology

Course: B.	Tech	Branch: Civil Engineering	
Semester:	Sem III		
ear: 20	014-2015		Max.Marks:60
Duration: 3 Hours Time:- 10 am -1 pm			Date:26/11/2014
Instructions:		MIS No.	
2 3 4 a 5	. Writing anything on que	grammable calculators are stricestion paper is not allowed. nything like stationery, calculate necessary.	
	the extent of bulking (b) Explain the necessity test. (c) Write in short on cher Q 2)(a) Explain water-cem between w/c ratio and cor	y and the procedure for aggregate mical composition of cement. nent ratio. Draw graphs giving relampressive strength of concrete ncrete and give its classification. Violen Shrinkage	[4] e impact value [3] [3] ationship [3]
	are recorded. 28.3, 3 3 Determine i) Modeviation (iv) Coefficient of	was tested at 28 days and the foll 28.1, 32.1,26.7, 29.2, 27.4 ,26.1, 0.0, 25.7 ,28.6, 27.1 ,28.7, 33.6, 0.1, 30.5, 23.8, 29.0, 28.4, 25.2 , Mean strength (ii) Variance (iii) Sta f variation. considered in mix design, explain	,31.2 , 26.8 24.0, 30.6, ,29.7, 28.5 andard (6)

Q 4)(a) Explain 'pulse velocity method' properties. (b) What is self-compacting concrete? disadvantages of it?		[3] [4]		
(c) Write a note on corrosion of reinforcement and its remedial measures.				
Q 5) a) Write short notes on :(i) Gas forming admixtures (ii) Use of admixtures in concrete		(6)		
(b) What is ready-mix concrete?		[4]		
Q 6 (a) Write short notes on any two (i) Shotcrete (ii) Sulphate attack on concrete (iii) Evaluation of cracks. (b) Explain various reasons of cracking of hardened concrete. [4] OR				
		[0]		
Q 6. (a) Match the following and rewrite (1) Ferrocement (2) Roller compacted concrete (3) Pumping of concrete (4) Ghat Ghar dam (b) Method for under-wate concreting (c) It is treatment given to and thin wall to improve		slabs		
	like of comprete			
(4) Tremie method	quality of concrete (d) Useful for smaller jobs areas			
(4) Tremie method(5) Vacuum concrete	(d) Useful for smaller jobs areas(e) It is the method of trans	in city		
, ,	(d) Useful for smaller jobs areas	in city		