

B. CONS.ENGG. 2nd Year 2nd. SEM. EXAM.-2017**SUBJECT Concrete Technology****Time : Three hours****Full Marks : 100****50 marks for each part****Use Separate Answer scripts for each Part**

No of Questions	Part I / Part II	Marks														
	Answer any Five Questions															
Q1a.	State the different purposes of using chemical admixtures.	05														
Q1b.	Calculate the fineness modulus of a sand sample from the following data:	05														
	<table border="0" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">Sieve use (mm)</th> <th style="text-align: center;">Weight retained (gm)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">4.75</td> <td style="text-align: center;">Nil</td> </tr> <tr> <td style="text-align: center;">2.36</td> <td style="text-align: center;">Nil</td> </tr> <tr> <td style="text-align: center;">1.18</td> <td style="text-align: center;">10</td> </tr> <tr> <td style="text-align: center;">0.600</td> <td style="text-align: center;">40</td> </tr> <tr> <td style="text-align: center;">0.300</td> <td style="text-align: center;">58</td> </tr> <tr> <td style="text-align: center;">0.150</td> <td style="text-align: center;">70</td> </tr> </tbody> </table>	Sieve use (mm)	Weight retained (gm)	4.75	Nil	2.36	Nil	1.18	10	0.600	40	0.300	58	0.150	70	
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	Total weight of sample taken for sieve analysis = 200gm.															
Q2.	Briefly discuss particle shape and texture of aggregate. How do they affect the performance of concrete?	10														
Q3.	Describe the method of curing with curing compounds.	10														
Q4.	Briefly discuss the procedure of casting, curing and testing of concrete cube specimens.	10														
Q5a.	What is the role of admixture in concrete?	03														
Q5b.	Write a short note on accelerating admixture.	07														
Q6.	Write short notes on															
	a) Surface Vibrators	05														
	b) Form Vibrators	05														