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деg	j. No. :			
Name :				
		B.Tech. Degree Examination, A (2008 Scheme) Branch : Civil 304 : CONCRETE TECHNOLOGY		
Tim	e : 3 Hours		Max. Marks: 100	
		er <b>all</b> questions from Part – <b>A</b> and <b>one</b> e in Part – <b>B.</b>	question from <b>each</b>	
		PART-A		
1.	What is soundness of	cement and how is it tested?		
2.	List any five types of c	ement indicating their use for different	applications.	
3.	What is meant by grade	e of cement? Discuss different grades of	f cement available.	
4.	Explain bulking of san	d and its relevance in construction wor	k.	
5.	List the various tests being tested.	conducted on coarse aggregate indic	cating the property	
6.	Define workability of co of concrete ?	oncrete. What are the different factors a	ffecting workability	
7.	Explain Non-destructive	ve testing of concrete.		

PART-B Module-I

9. a) Describe the chemical compound composition of portland cement and hydration

(8×5=40 Marks)

15

5

20

8. Explain the importance of grading in mix design.

process of these compounds.

b) Write a note on cement storage.

OR

10. Discuss different characteristics of aggregates.

## Module - II

11. a)	<ul> <li>a) Explain the role of water—cement ratio in the fresh and hardened properties of concrete.</li> </ul>		
b)	Describe with sketch slump test for determining workability.  OR	10	
12. Dis	<ol> <li>Discuss the process of manufacture of concrete and different steps involved in concreting .</li> </ol>		
Module – III			
13. a) E	Explain the stress- strain characteristics of concrete.	10	
b) [	<ul> <li>Discuss different factors which affect the strength of concrete.</li> <li>OR</li> </ul>		
14. Expl the c	ain proportioning of concrete mixes. Discuss different factors influencing choice of mix proportions.	20	