

**Code No: C2005****JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****M.Tech I Semester Examinations March/April-2011****CONCRETE TECHNOLOGY  
(STRUCTURAL ENGINEERING)****Time: 3hours****Max.Marks:60****Answer any five questions  
All questions carry equal marks**

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1. a) Write the differences between normal and high strength concrete with to stress strain behaviour.  
b) Explain the term curing efficiency.  
c) What are the different methods of batching? Explain in detail. [12]
2. a) What is recycled aggregate contents . Explain various properties of the same.  
b) Explain the various alkali aggregate reactions. [12]
3. a) What are the different methods of curing concerts.  
b) Explain bleeding and segregation of concerts and what the causes of the above effects. [12]
4. a) What are the design considerations for plumpish concerts.  
b) Explain different methods for comp action if concerts. [12]
5. a) What are the factors effecting shrinkage and crop of concerts.  
b) Explain about high – performance and high strength concerts. [12]
6. a) Explain what are the different quality control methods of concerts and quality audit.  
b) Explain what are the factors contributing to cracks in concerts. [12]
7. a) Explain what are the major factors effects the concerts mix design of concrete mixes.  
b) Explain the design principles of ACI method. [12]
8. a) Explain the design principles of light weight aggregate concerts mix.  
b) Explain self compacting, polymer. [12]

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