

# SATHYABAMA UNIVERSITY

(Established under section 3 of UGC Act, 1956)

Course & Branch: B.E - CIVIL

Title of the paper: Building Materials - II

Semester: II

Sub.Code: 620201(2007)

Date: 11-12-2008

Max. Marks: 80

Time: 3 Hours

Session: AN

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## PART – A

(10 x 2 = 20)

Answer All the Questions

1. What are the ingredients of concrete?
2. What are the methods being practiced for mixing the concrete?
3. Define “No fine concrete”.
4. List few types of special concrete.
5. What are the principal constituents of glass?
6. What are the classification of glass?
7. What are the technical classification of plastics?
8. List few unique qualities of Plastics?
9. What is Damp – proofing?”
10. Differentiate Enamers over emulsions.

## PART – B

( 5 x 12 = 60)

Answer All the Questions

11. (a) What are the qualities of good concrete? (6)  
(b) List few grades of concretes with their places of utility for constructing a typical residential house. (3)  
(c) Write short notes on “methods of batching the concrete. (3)

(or)

12. List out various tests that can be performed to determine the characteristics/qualities of concrete and explain any three of them.
13. (a) Define ‘Reinforced cement concrete’ (3)  
(b) List out various material available for Reinforcing cement concrete. (3)  
(c) Write the advantages and disadvantages of light weight concretes no fines concrete. (6)  
(or)
14. (a) Briefly explain the various method of obtaining high density concrete. (6)  
(b) Differentiate fibre reinforced concrete very ferro cement. (4)  
(c) List few uses of special concretes. (2)
15. List out various commercial forms of glass and briefly explain the characteristics of any of three.  
(or)
16. (a) List out various commercial forms of aluminium with neat sketch. (8)  
(b) What are the properties of aluminium? (4)
17. (a) Discuss about the various thermo plastics and thermosetting plastics with examples.  
(or)
18. Explain the properties of commercial forms of plastics with neat sketch.
19. (a) What are the different types by “Damp proofing”. (2)  
(b) List out few qualities of good damp proofing. (4)  
(c) What are the advantages and disadvantages of metal and non-metal damp proofing methods?  
(or)
20. Write short notes on the following composition of oil paints.  
(a) Base (b) Vehicle (c) Pigments  
(d) Thinner (e) Driver (f) Inert filler