

# 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(2007-2008)

Date: 15-05-2009

Max.Marks: 80

Time: 3 Hours

Session: FN

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PART - A

(10 X 2 = 20)

Answer ALL the Questions

1. What is meant by well graded aggregate?
2. Define workability of concrete.
3. What is heat of hydration?
4. Define the terms: aspect ratio and volume fraction of fibre used in fibre reinforced concrete.
5. Define the terms: Pressing and blowing
6. What is Duralumin?
7. Differentiate between thermo plastics and thermosetting plastics.
8. What is polymerization?
9. Explain the difference between leaded glass and boro-glass.
10. Define Lacquer.

PART – B  
Answer All the Questions

(5 x 12 = 60)

11. Explain the step-by-step procedure for the production of concrete at site.  
(or)
12. Explain briefly the different tests conducted in the laboratory for testing various properties of concrete.
13. What are the methods by which light weight concrete can be produced? Explain one of them in detail.  
(or)
14. Explain the properties of ferrocement and its applications.
15. (a) Explain the properties of glass  
(b) What are the different types of glass?  
(or)
16. (a) List out the properties of Aluminum as an engineering material.  
(b) What are the applications of Aluminum alloys?
17. What are the raw materials used in the manufacture of plastics. Explain in detail.  
(or)
18. Explain in detail the process of manufacture of plastics.
19. (a) What are the main functions of paint and varnish?  
(b) What are the characteristics of an ideal paint?  
(or)
20. Explain different methods used for the prevention of dampness in buildings.