

SATHYABAMA UNIVERSITY

(Established under section 3 of UGC Act,1956)

Course & Branch :B.E - CIVIL

Title of the Paper :Building Materials – II

Max. Marks :80

Sub. Code :620201

Time : 3 Hours

Date :10/12/2009

Session :AN

PART - A

(10 x 2 = 20)

Answer ALL the Questions

1. Write the factors affecting the workability of concrete.
2. Write the mix proportion of concrete for ordinary footing.
3. Write two types of fiber reinforced concrete.
4. What are the properties of hardened concrete?
5. Enlist the processes involved in the fabrication of glass.
6. Write the constituents of glass.
7. Name the moulding components added to plastic to get the desired properties.
8. What is polymerization?
9. What is meant by 'knotting' in painting work?
10. What is a lacquer? What are its functions?

PART – B
Answer All the Questions

(5 x 12 = 60)

11. What are the methods of proportioning concrete?
(or)
12. What are the characteristics of good concrete? Give details about classification of concrete based on design.
13. Explain the following:
 - (a) Polymer concrete
 - (b) Ferrocement
 - (c) Superplasticised concrete.(or)
14. What are the functions of admixtures in concrete? Briefly explain the classification of admixtures.
15. Write in detail about the classification of glass as per composition and properties.
(or)
16. Write the physical and mechanical properties of aluminium. Write the uses of aluminium as a building material.
17. Differentiate between thermoplastics and thermosetting plastics.
(or)
18. Write in detail about the commercial forms of plastics.
19. Explain the following as a protective and decorative coating:
 - (a) Paint
 - (b) Varnish(or)
20. What are the composition and properties of distemper? Explain various stages involved in distemping process.