

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: 27-05-2008

Max. Marks: 80

Time: 3 Hours

Session: FN

PART – A

(10 x 2 = 20)

Answer All the Questions

1. Mention any four types of curing techniques.
2. What is meant by proportioning of concrete?
3. Define fibre reinforced concrete.
4. What are the uses of special concrete?
5. State the general properties of glass.
6. Name the aluminum alloys used in construction industry.
7. What are the uses of plastics?
8. What are two types of distempers?
9. What are the functions of paints?
10. What are the ingredients of a varnish?

PART – B

(5 x 12 = 60)

Answer All the Questions

11. Define workability of concrete. Briefly describe the various methods of measuring workability bringing out their suitability.
(or)
12. What are the different grades of concrete? Explain with suitable relevance regarding the different mix.
13. Discuss in detail Reinforced Cement Concrete and Polymer Concrete.
(or)
14. Discuss the different types of ingredient used for making light weight concrete.
15. (i) What are the various classifications of glass?
(ii) Mention the various special types of glass used for the building.
(or)
16. Explain the physical and mechanical properties of aluminum, and also the uses of aluminium.
17. Explain the difference between thermoplastic and thermosetting plastic.
(or)
18. Discuss the properties and their uses of water proofing and damp proofing materials.
19. (i) What are the ingredients of distemper? What steps are to be followed while applying distemper on a surface? (6)
(ii) What are the characteristics of an ideal paint? Briefly highlight the usual defects found in painting works. (6)
(or)
20. Mention the different types of varnishes and describe the process of varnishing on wood work.