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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(2007/08/09)

Time: 3 Hours

Date: 06/12/2010

Session: AN

PART - A

(10 X 2 = 20)

Answer ALL the Questions

1. What are the materials used to prepare the plain cement concrete?
2. What is the minimum period of curing for any RCC?
3. List out any two tests carried out for fresh concrete.
4. Define water cement ratio.
5. List out three general categories of glass.
6. Write any two advantages of Glass blocks.
7. What are the methods of polymerization?
8. Why are the plastics not widely used as structural materials?
9. What are the two categories of asphalt?
10. Define Pigment Volume Concentration Number (PVCN).

PART – B
Answer All the Questions

(5 x 12 = 60)

11. What are the precautions that can be taken when transportation and placing of fresh concrete?
(or)
12. Write short notes on:
(a) Compressive strength test
(b) Modulus of rupture test
13. Briefly describe about:
(a) No fines concrete.
(b) High density concrete
(or)
14. List out the uses of special types of concrete.
15. Briefly discuss any four types of special varieties of glass.
(or)
16. Write some properties and uses of Aluminum.
17. List out the physical and mechanical properties of plastics.
(or)
18. List out the uses of plastics.
19. Write short notes on following which are used as water proofing materials.
(a) Asphalt
(b) Bitumen
(or)
20. Describe
(a) Aluminum paint
(b) Anticorrosive paint