

DEPARTMENT OF CIVIL ENGINEERING

SUB CODE & SUB NAME: CE 6401 CONSTRUCTION MATERIALS

UNIT-I: - STONES – BREAKS – CONCRETE BLOCKS

PART A (2MARKS)

1. What are the classifications of rocks.
2. What is the difference between physical classification & chemical classifications.
3. What is meant by Natural bed of stone.
4. What are the lists for the stones.
5. What is meant by Affliction tests.
6. What are the criteria for selection
7. What is meant by Deterioration.
8. What are the characteristics of good building stone.
9. What is preservation of stone work.
10. What is the reason for the decrease in the use of stones as building material.
11. What is the reason for the popularity of bricks as construction material?
12. What are the soil used for the manufacture of bricks should preferably.
13. What is the classification of bricks.
14. What are the ingredients of good brick earth.
15. How is are manufacturing of clay bricks.
16. What is the tests on bricks.
17. What is meant by compressive shre....
18. What is meant of water absorption of bricks.
19. What is meant by efflorescence.
20. What is the special use for bricks.
21. What is meant by refracting bricks.
22. What is the preparation of brick earth
23. What are the ingredients of cement.
24. What is meant by concrete blocks.
25. Define light weight blocks.
26. PART B (16 marks)
27. Explain Classification of rocks.
28. Briefly explain Tests for stones.
29. Explain criteria for selection of stones.
30. Briefly explain deterioration and preservation of stone work.
31. Briefly explain classification of bricks.
32. Explain operator diagram for preparation of brick earth
33. Explain in detail about test on bricks
34. Explain water absorption efflorescence test
35. Briefly explain additives in the manufacture of bricks.
36. 10.Explain bricks for special use and refraction brick.
37. 11. Explain in detail heat sketches for manufacture of cement.
38. 12. Explain in detail about ingredients of cement blocks.
39. 13. Explain in detail for preparation of concrete blocks.
40. 14. Explain in detail for preparation of light weight concrete blocks.

UNIT-II LIME- CEMENT AGGRE GATES –MORTAR

PART A (2 MARKS)

1. What is meant by calcinations.
2. Define hydraulicity.
3. What are the different types of limes..
4. What are the classification of limes .
5. What is constituents of lime stones
6. What are the uses of limes.
7. What are the difference lists for lime stones
8. How to preparation of lime mortar
9. What are the ingredients of cement.
10. What are the types of cement.
11. What is grades of cement.
12. What are the properties of cement.
13. How to preparation of cement mortar.

10. Discuss the important points to be noted before the process of
11. painting is started.
12. Mention the objects of varnishing and point out are characteristics of
13. an deal varnish.
14. What are the ingredients of varnish? describe briefly each of them.
15. Mention the usual defects which are found in the painting work.
16. Write short notes on.

(a) Turpentine	(4)	(b) Cellulose paint	(4)
(c) Cement paint	(4)	(d) Solvents for	(4)

**UNIT V MODERN MATERIALS.
PART A (2 MARKS)**

1. Give classification and composition of glass.
2. State the general properties of glass.
3. Mention the properties and uses of various types of glass.
4. What are glass blocks.
5. What is meant by ceramics.
6. Write short notes on sealants for joints.
7. What is meant by fiber glass reinforced plastic.
8. List out the clay products.
9. What is meant by refractories
10. 10. What are the uses of refractories
11. distinguish between ordinary and refractions.
12. What is meant by composite gateways.
13. List out the composite motives.
14. What are the types of composite mateivals.
15. List out applications of laminar composites.
16. What is meant by laminar compositor.
17. Differentiate between composite and laminar composites.
18. What is meant by fiber textiles.
19. What are the user of fiber textiles.
20. What is meant by geo membranes.
21. What are the applications of geo membranes.
22. Differentiate between geo membranes and geo textile.
23. What is meant by geo textiles.
24. What are the advantages of geo textiles.
25. What is meant by earthier reinforce mend.

PART B (16 MARKS)

1. Describe the process of manufacturing glass.
2. Describe the various treatment ts give to glass.
3. How is colored glass made? State the coloring substances which are used for getting deferent shades of color in glass.
4. What is ceramics? (4)
5. What are the advantage and disadvantages of ceramics materials (4).
6. List out uses of ceramics materials.
7. Detail about the sealants for joints and briefly explain.
8. Briefly explain fiber glass reinforced plastic.
9. With neat sketches ma of clay prod nets.
10. Briefly explain refractoriness and uses of industrial.
11. Write a critical note on composite materials and uses
12. What are the types composite gateways briefly explain and application of laminar composites.
13. Detail about Manu facility of fiber textiles and uses.
14. Distinguish between geo membranes and geo textiles for earth reinforcement.
15. Briefly explain geo textiles for earth reinforcement.