

CE3302 CONSTRUCTION MATERIALS AND TECHNOLOGY

IMPORTANT QUESTIONS AND QUESTION BANK

UNIT – I STONE - BRICKS - CONCRETE - BLOCKS - LIME

2-Mark

1. Explain deterioration and preservation of stone work.
2. What is meant by dressing of stones?
3. Define Light weight bricks.
4. Recall about light weight concrete block
5. Tell the types of bricks.
6. List the different types of refractory bricks.
7. Classify the types of tests on stones.
8. Why you choose stone as a building material?
9. Summarize the names of bricks for special use.
10. Demonstrate the manufacturing processes of concrete blocks
11. Model the standard size of brick used for construction with neat sketch.
12. What are the various reasons for deterioration of stones?
13. Identify any four advantages of bricks as compared with stones.
14. Analyse the characteristics of good building stone.
15. Examine efflorescence in bricks. How it can be removed?
16. Categorize the tests on bricks and their purposes.
17. Bricks are more preferred than stones. Justify that.
18. During the manufacturing of light weight concrete blocks admixtures are added. Evaluate the statement.
19. Design a neat sketch of Hoffman's kiln.
20. Compile the applications of light weight concrete blocks.
21. What are refractory bricks? Where are they commonly used?
22. Explain the different classification of bricks.

23. List any four test on stones.
24. Define efflorescence
25. How living organisms affects the stonework?

13 – Mark

1. Explain the various methods for the preservation of stone work.
2. Describe the various tests on bricks.

UNIT – II OTHER MATERIALS

2 - Mark

1. Define seasoning in timber.
2. Tell about annealing of steel.
3. When and where distemper is used?
4. What is blown bitumen?
5. Name the methods through which galvanized coatings is given to GI Sheets
6. List the advantages of Thermocole.
7. Differentiate between dry distemper and oil distemper.
8. Discuss the causes of decay of wood work.
9. Summarize the merits of aluminum in construction.
10. List out the different paints used for building construction.
11. Write about the test on penetration of bitumen.
12. Illustrate the various rolled steel sections.
13. Interpret the chemical reaction between iron and other atmospheric agents which cause corrosion.
14. List the various market forms of timber and steel.
15. Arrange in order the type of steel based on their carbon content.
16. What are the characteristics of an ideal paint?
17. Explain the composition of duralumin.
18. Develop a flow chart for the manufacturing process of paint.
19. Assess the advantage of using veneer.
20. Recommend methods for painting on surfaces

21. Explain the constituents of the vary
22. What is meant by distempering?
23. What are the basic components of paint
24. What are exterior paints? Explain their use in buildings
25. What are the different types of adhesives?
26. Name the constituents of Glass.
27. define the term Refractories.
28. What are the properties of Glass
29. Show the characteristic feature of ceramic materials
30. Why and where Sealant is used?
31. List the uses of ceramics.
32. Explain about FGRP

13 - Mark

1. Explain the preservative treatments available for timber.
2. Explain the different types of glass with its application in buildings?
3. Explain in detail about refractories
4. Explain various applications of
 - (i) Geomembranes
 - (ii) Geo textiles.
5. Describe different rolled sections of structural steel with neat sketches and state their uses.

UNIT – III CONSTRUCTION PRACTICES & SERVICE REQUIREMENT

2 - Mark

1. What are the Types of foundation?
2. What is shallow foundation?
3. What is the meaning of stone masonry?
4. Define Plastering.
5. Explain cavity walls.

6. What is formwork.
7. Write short note for centering and shuttering.
8. Define shoring.
9. What is underpinning?
10. Explain Roofing.
11. Define flooring.
12. Write about the joints in concrete.
13. Describe expansion joints.
14. Write about fire protection.
15. What is thermal insulation?
16. Write the short note of acoustics and sound insulation.
17. What is damp proofing?

13 – Mark

1. Describe the various types of foundations with neat sketch.
2. Explain about diaphragm.
3. Write detailed note of roofing.
4. Discuss about ventilation and air conditioning.
5. Describe the process of stone masonry

UNIT – IV CONSTRUCTION EQUIPMENT

2 - Mark

1. What precautions would you take in curing PPC concrete?
2. Why do we need compaction in concrete?
3. List the steps involved in concrete manufacturing process.
4. Define durability of concrete?

13 – Mark

1. Explain the placing and curing method in concrete?
2. What are the test conducted on fresh concrete? explain any four.
3. Explain about the self-compacting concrete?

4. List out the tests conducted on hardened concrete? explain any four.

UNIT - V CONSTRUCTION PLANNING

2- mark

1. What is construction planning?
2. Explain scheduling for activities.
3. What is the meaning of critical path method (CPM).
4. Discuss about PERT network modelling and time analysis
5. Describe case illustration.

13 - Mark

1. Give detailed explanation for construction planning.
2. Describe about PERT network modeling and time analysis.