

# 31032-Construction Materials & Construction Practice

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## UNIT 1

### PART – A (2 MARK)

1. Define specific gravity.
2. Define durability.
3. What are the various classification of rocks?
4. Define artificial stones and mention the classification of artificial stone.
5. What are the two types of moulding?
6. Name the various methods of burning of bricks?
7. What are the sources of lime?
8. What is surki?
9. Name any four ingredients in cement.
10. What is meant by white cement?
11. Define sea water or brackish water?
12. Name any two tests on water and their limits.
13. Define glass.
14. Mention the constituents of glass.
15. Define ceramic products.
16. What is an earthen ware?

### PART – B (3 MARK)

1. What are the physical properties of construction materials?
2. List out the requirements of good building stones.
3. What are the natural stones of building?
4. Write notes on hand moulding?
5. Write notes on machine moulding?
6. what are the advantage of addition of pozzolanas ?
7. what are the types of cement?
8. What are the ingredients of cement?
9. What are the uses of brackish or sea water for construction?
10. Write short notes on common glass.
11. Write short notes on thermal care tiles.

### PART – C (10 MARK)

1. Discuss briefly any 5 physical properties of construction materials.
2. What are the uses of stones?
3. Define any five requirement of good building stones.
4. Explain manufacturing process of bricks.
5. Explain compressive strength test on bricks.

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6. What are the uses of lime?
7. What are the functions of various ingredients of ordinary port land cement?
8. Write short notes on three types of cement.
9. How do you determine the estimation of sulphates in ground water?
10. Explain the uses of glass in building?
11. Write short notes on sanitary appliances.

### UNIT 2

#### PART – A (2 MARKS)

1. What is mortar?
2. What is concrete?
3. What are the uses of concrete?
4. Define paint?
5. What is distemper?
6. Name any four types of distemper.
7. What are the types of metal used in construction?
8. Define plastic?
9. What is galvanized iron?
10. What is teak wood?
11. What is rose wood?
12. What is the use of timber used in building?
13. What is a roof covering?
14. Define shell roof.
15. What is meant by damp proofing?
16. Name any four air repelling chemicals.

#### PART – B (3 MARKS)

1. What are the properties of good mortar?
2. Write uses of mortar?
3. What are the uses of CC in structure?
4. Write the types of paint?
5. Give short notes on distemper?
6. Write uses of plastic?
7. Write short note on properties and uses of aluminum.
8. Explain about deflecting of timber.
9. Write a note on AC sheet.
10. What are the materials used for Damp proofing?

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### **PART – C (10 MARK)**

1. What are uses and types of mortar?
2. Explain types of concrete.
3. Describe any three types of paint and varnish.
4. What are the advantages of plastic?
5. Discuss about various timber product and uses.
6. Explain about Shell roof and RCC roof.
7. State the function and properties of various water proofing material.
8. Explain about lime mortar.
9. What are the properties and uses of mild steel?
10. Explain about types of admixtures.

### **UNIT 3**

#### **PART – A (2 MARKS)**

1. Define permanent and temporary structure?
2. Define foundation?
3. What is column and column footing?
4. What is weathering?
5. What is stone and brick masonry?
6. Define closer?
7. Define header and stretcher.
8. Define partition wall?
9. Define dampness?
10. Define grouting?

#### **PART – B (3 MARKS)**

1. Write a short note on framed and load bearing structure?
2. Describe factor affecting bearing capacity of soil?
3. Write short notes on Rubble masonry.
4. Write short notes on English bond and Flemish bond.
5. Write short notes glass partition?
6. Write short notes on mixing of water proof?
7. Write short notes on methods of grouting
8. Write a note on pile
9. Name any 4 causes of failure of foundation
10. What is AC sheet?

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### **PART – C (10 MARKS)**

1. Explain load bearing structure.
2. Explain types of foundation.
3. Describe terms used in stone masonry
4. Explain types of brick masonry.
5. Explain about types of partition.
6. What are causes and effects of dampness?
7. List and explain the tools used for stone masonry.
8. Discuss about causes of failure of foundation and its remedial measures.

### **UNIT 4**

### **PART – A (2 MARKS)**

1. Name components of doors and windows?
2. Define ventilators?
3. Define hollow block?
4. What are the various materials used in hollow block?
5. What is meant by stair?
6. What is tread and rise
7. Explain escalator?
8. What is meant by floor and types of flooring?
9. What is mosaic tiles?
10. What is roof ?
11. Define hip and valley.
12. What are the purpose of weathering course?

### **PART – B (3 MARKS)**

1. What are the types of doors and windows?
2. Write short notes on purpose of ventilators?
3. Write short notes on construction of hollow block?
4. Mention the various materials used in flooring?
5. Explain steel roof truss.
6. Explain brick jelly?
7. Write short notes on laying procedure in weathering coarse?



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### PART – C (10 MARKS)

1. What are the types of doors and window and explain with neat sketch?
2. Explain manufacturing of hollow block.
3. Describe with neat sketch types of stair.
4. Define floor and types of floor?
5. Define flooring and types of flooring.
6. Explain laying procedure of tiles on brick jelly concrete.

### UNIT 5

### PART – A (2 MARKS)

1. What is meant by pointing?
2. What is meant by mortar for pointing?
3. Define plastering.
4. What do you understand by stucco plastering?
5. What is the purpose of anti termite treatment?
6. What is meant by formwork?
7. Define scaffolding
8. What is distempering?

### PART – B (3 MARKS)

1. Explain object of plastering?
2. Explain object of pointing?
3. Write short notes on anti termite treatment.
4. Explain white and colour washing?
5. What are the components of distempering?
6. Explain about shoring.
7. Write short notes on underpinning?
8. What are the requirements of good formwork?

### PART – C (10 MARKS)

1. Explain briefly about types of pointing?
2. Discuss about types of plastering?
3. Briefly explain about step by step procedure for application of varnish, paint and distemper
4. Explain about methods of anti termite treatment.
5. Write about types of scaffolding.
6. Describe types of shoring with neat sketch.
7. Explain about formwork for column, beam and slab.

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