

#### **CONSTRUCTION MATERIALS**

#### BRANCH :- CIVIL / INTERIOR

These Questions are made for your previous exam, from PYQ and some internet....(Notes reference le Lena ek baar)

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### UNIT-I: Natural Construction Materials

- 1. **Describe the characteristics of a good building stone.** Mention at least eight essential properties. **(PYQ 2024 Short Q7a)**
- 2. **Explain the methods of quarrying stones.** Discuss wedging and blasting techniques.
- 3. What are the common methods of preserving stones? Explain the purpose and techniques used.
- 4. **List various defects in timber with neat sketches.** Explain the causes and effects. **(PYQ 2024 Q6a)**
- 5. **State the objectives of seasoning timber.** Explain any two common methods. **(PYQ 2024 MCQ)**
- 6. **Discuss the methods of timber preservation.** Also mention suitable preservatives. **(PYQ 2024 Short 07b)**

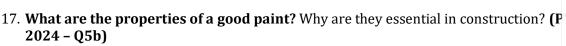
# UNIT-II: Artificial Construction Materials

- 7. **Explain the manufacturing process of burnt clay bricks.** Include stages with explanation. **(PYQ 2024 Q4a)**
- 8. What are the field tests performed on bricks? Describe procedure and significance. (PYQ 2024 Q4b)
- 9. **Describe the construction and working of Hoffmann's kiln.** Support with a neat diagram. **(PYQ 2024 Short Q7d)**
- 10. **Differentiate between modular and standard bricks.** State sizes and key differences. **(PYQ 2024 Short Q7c)**
- 11. Explain the constituents and characteristics of good brick earth.
- 12. **Write short notes on pavement blocks.** Describe their properties and applications. **(PYQ 2024 Q2b)**

### UNIT-III: Processed / Modern Construction Materials

- 13. Describe the manufacturing process, properties, and uses of Geo polymer cement. (PYQ 2024 Q3a)
- 14. Explain the types of cement and their specific applications. (PYQ 2024 Short Q7e)
- 15. What are the field tests performed on cement? Explain the method and purpose. (PYQ 2024 MCQ)
- 16. Write the constituents and uses of Plaster of Paris (POP). (PYQ 2024 Q5a)

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18. **Distinguish between paints and distempers.** Highlight key differences. **(PYQ 2024 Q3b)** 

# UNIT-IV: Special Construction Materials

- 19. Explain various types of waterproofing materials used in construction. (PYQ 2024 Short 07e)
- 20. **Describe thermal and sound insulation materials.** Mention types and applications.
- 21. Write a short note on epoxy resins and non-shrink grouts.
- 22. What are Aluminium Composite Panels (ACP) and Glass Reinforced Concrete (GRC)? Explain uses.
- 23. Describe the manufacturing process and uses of High Pressure Laminates (HPL).
- **6** How to Score Maximum Marks
- ✓ 1. Focus More on Units I, II, and III

Highest marks come from Stone, Timber, Bricks, Cement, and Paints.

Unit IV has lower weight and can be studied selectively.

✓ 2. Diagrams = Extra Marks

Sketch diagrams neatly: timber defects, Hoffmann's kiln, brick manufacturing.

Diagrams often get 1–2 bonus marks, even if your answer is average.

**✓** 3. Memorize These Key Technical Points

Topic Key. Value

Stone strength > 100 N/mm<sup>2</sup>

Water absorption (stone) < 5%

POP setting time 10–15 minutes

Paint resistance Heat, corrosion, water

Geo polymer cement No limestone, eco-safe

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