

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 Q7b)

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)

17. **What are the properties of a good paint?** Why are they essential in construction? (PYQ 2024 – Q5b)
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 Q7e)
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).**

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	$> 100 \text{ N/mm}^2$
Water absorption (stone)	$< 5\%$
POP setting time	10–15 minutes
Paint resistance	Heat, corrosion, water
Geo polymer cement	No limestone, eco-safe