

S.No. : 339

AR 1402

No. of Printed Pages : 03

Following Paper ID and Roll No. to be filled in your Answer Book.

PAPER ID : 10121

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B. Arch. Examination 2021-22

(Even Semester)

BUILDING CONSTRUCTION & MATERIALS - IV

Time : Three Hours]

[Maximum Marks : 60

Note :- (i) Support your answers with the help of neat sketches.

(ii) Assume any missing data.

(iii) Use appropriate scale wherever necessary.

SECTION - A

1. Explain / Define the following questions : $8 \times 1 = 8$

(a) Which type of glass is also known as milk glass?

[P. T. O.]

- (b) Which type of shores are most often used for supporting temporarily the parallel walls of two adjacent buildings where an intermediate building has to be demolished / altered?
- (c) What is the utility of partitions?
- (d) What is a Veneer?
- (e) What are the common usages of straw board and wood wool cement board?
- (f) What are the disadvantages of using polyvinyl acetate adhesives?
- (g) What are the main constituents of any ceramic material?
- (h) List/sketch the standard dimensions of single rebate door frame and double rebate door frame constructed in timber.

SECTION – B

2. Attempt any two parts of the following : $6 \times 2 = 12$

- (a) Briefly discuss the mechanical properties of ceramics.
- (b) How are adhesives classified? Discuss briefly.

- (c) What do you understand by 'Panelling'? Briefly discuss the methods of its construction.
- (d) What do you understand by 'Shoring'? Discuss its types in brief.

SECTION - C

Note :- Attempt any two questions. $2 \times 20 = 40$

3. (a) Elaborate on the utility of 'Partitions', their classification and application in buildings.
- (b) What do you understand by 'Underpinning'? Elaborate on the methods of its application in the existing buildings / structures.
4. Design a flush door in an opening of 1050×2100 mm. Elaborate your scheme with the help of plan, elevations, section and a minimum of three construction details at a suitable scale.
5. Design a sliding door in an opening of 1800×2100 mm. Explain your scheme with the help of plans, elevation, sections and at least two construction details at an appropriate scale.

