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

PAPER ID : 10121 Roll No.

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 necesary.

SECTION – A

1. Explain / Define the following questions : 8×1=8

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

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(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) WHati s 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 : 6×2=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. 2×20=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.

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