

Paper Id:

181281

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BARCH
(SEM IV) THEORY EXAMINATION 2018-19
CONSTRUCTION AND MATERIAL-IV

Time: 3 Hours

Total Marks: 50

Notes:

- Attempt questions in **two cartridges** only.
- Assume any missing data.
- Dimensioning and labeling should be done in all drawings.
- Be precise in your answers.

SECTION – AQ1) Define the following (attempt **all**): (10x1=10)

- | | |
|----------------|------------------|
| a. Face veneer | f. Voids |
| b. Cross- band | g. Channel track |
| c. Lipping | h. Trolley |
| d. Battens | i. Tee-guide |
| e. Rebate | j. Bracket |

SECTION – BQ2) Attempt any **five** questions: (5x6=30)

- a) What is laminate? Explain its manufacturing in detail?
- b) What are the advantages of compressed straw board with example?
- c) Write short notes on any **one** of the following:
 - i. Sliding-folding door
 - ii. Revolving door
- d) Fill in the blanks (any **five**):
 - i. Sometimes the structures are to be temporarily supported. This is achieved by what is known as the _____.
 - ii. In _____ shore arrangement, the inclined supports are given to the external walls from the ground.
 - iii. In _____ arrangement, the horizontal supports are given two parallel walls which have become unsafe due to the removal or collapse of the intermediate building.
 - iv. In _____ arrangement, the horizontal members, known as the needles are supported by vertical _____.
 - v. _____ is necessary to tie back the scaffolding with the building at suitable levels.
 - vi. The loading on the scaffolding decides the _____ of standards.
- e) Differentiate between any **two** of the following:
 - i. Translucent & Transparent glasses.
 - ii. Wood wool cement board & Cement fiber board
 - iii. Stoneware & Earth ware
- f) Discuss any **two** of the following:
 - i. Thermo-plastic adhesives and thermosetting adhesives. Give in detail one example of each.
 - ii. Explain the process of timber paneling.
 - iii. Explain the term underpinning.

SECTION – C

Q3) Attempt any **one** questions.

(1x10=10)

- a) Explain the advantages of timber partitions over brick partitions. Design a partly panelled partly glazed partition in timber for an opening of size 3000x3000 mm with one door.
- b) A sliding door is to be provided between drawing room & dinning lobby. It is to be designed for a masonry opening of 2250x2100 mm.
 - i. Draw Elevation of the door (scale 1:10)
 - ii. Plan & cross section (scale 1:10)
 - iii. Top & bottom details (scale 1:2)

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