Printed pages: 02 Sub Code: RAR 402

Paper Id: 181281 Roll No: | | | | | | | | | | |

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 – A

Q1) Define the following (attempt **all**): **(10x1=10)**

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

SECTION – B

Q2) 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.

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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 Elevatlon of the door (scale 1:10)

ii. Plan & cross section (scale 1:10)

iii. Top & bottom details (scale 1:2)

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