

S.No. : 291

AR 502

No. of Printed Pages : 03

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

PAPER ID : 0124

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B. Arch. Examination 2019-20
(Odd Semester)

CONSTRUCTION AND MATERIALS - V

Time : Three Hours]

[Maximum Marks : 50

Note :- (i) Attempt all four questions.

(ii) Question No. 1 is compulsory.

(iii) Assume any missing data.

(iv) Use appropriate scale for drawings with dimensions.

1. Design an opaque aluminium partition of size 5000 mm wide and 3000 mm high, with a glazed aluminium door at the end of its one side of size 1000 mm wide and 2100 mm high. You are required to draw the following : 15

(a) Front elevation and at least two related sections with a scale of 1:20.

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- (b) Detail showing fixing of panel material to the partition frame.
- (c) Detail showing fixing glass to door frame.

OR

Design a false ceiling for a conference hall size 10000 × 8000. Material as per choice of student.

Draw :

- (a) Reflected ceiling plan and sectional plan cut between roof and ceiling.
 - (b) Draw any two detail in suitable scale.
2. Draw construction detail of any two of the following : 15
- (a) Connection between main beam and secondary beam using mild steel I-section.
 - (b) Roof truss to the steel column joint.
 - (c) Construction detail of metal stud partition.
3. Attempt any two of the following. Support your answer with neat sketches : 10
- (a) Discuss the importance of ceiling finishes in reference to modern interiors.

- (b) Discuss in detail ferrous metals.
 - (c) Discuss all floor covering in detail.
 - (d) Discuss riveting and soldering.
4. Differentiate between any two of the following : 10
- (a) Brazing and welding.
 - (b) Butt hinge and back flap hinge.
 - (c) Cold rolled and hot rolled steel sections.
 - (d) Venetian blinds and curtains.
