

CBCS SCHEME

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15ARC42

Fourth Semester B.Arch. Degree Examination, Dec.2019/Jan.2020 Materials and Methods on Building Construction - IV

Time: 4hrs.

Max. Marks:100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 Explain the differences between Filler slab and Waffle slab with neat sketches. (20 Marks)
Explain the principles involved in the moment framed structure with help of neat sketches.

OR

- 2 Draw the plan, section and reinforcement detail of flat slab with column head to the span of 20m × 15m slab. (20 Marks)

Module-2

- 3 To the span of 15M × 20M draw the plan, section and detail of reinforcement for Waffle slab. (20 Marks)

OR

- 4 Explain the method of construction involved in filler slab. Mention the different types of materials used in filler slab with neat sketches. (20 Marks)

Module-3

- 5 Draw to a suitable scale for a span of 30m × 20m workshop with steel column and beams structures with roof covering. (20 Marks)

OR

- 6 Explain the different types of steel used in the construction with its uses and properties. (20 Marks)

Module-4

- 7 Draw plan, elevation and 2 details for a steel door of size 1.2m × 2.1m. (20 Marks)

OR

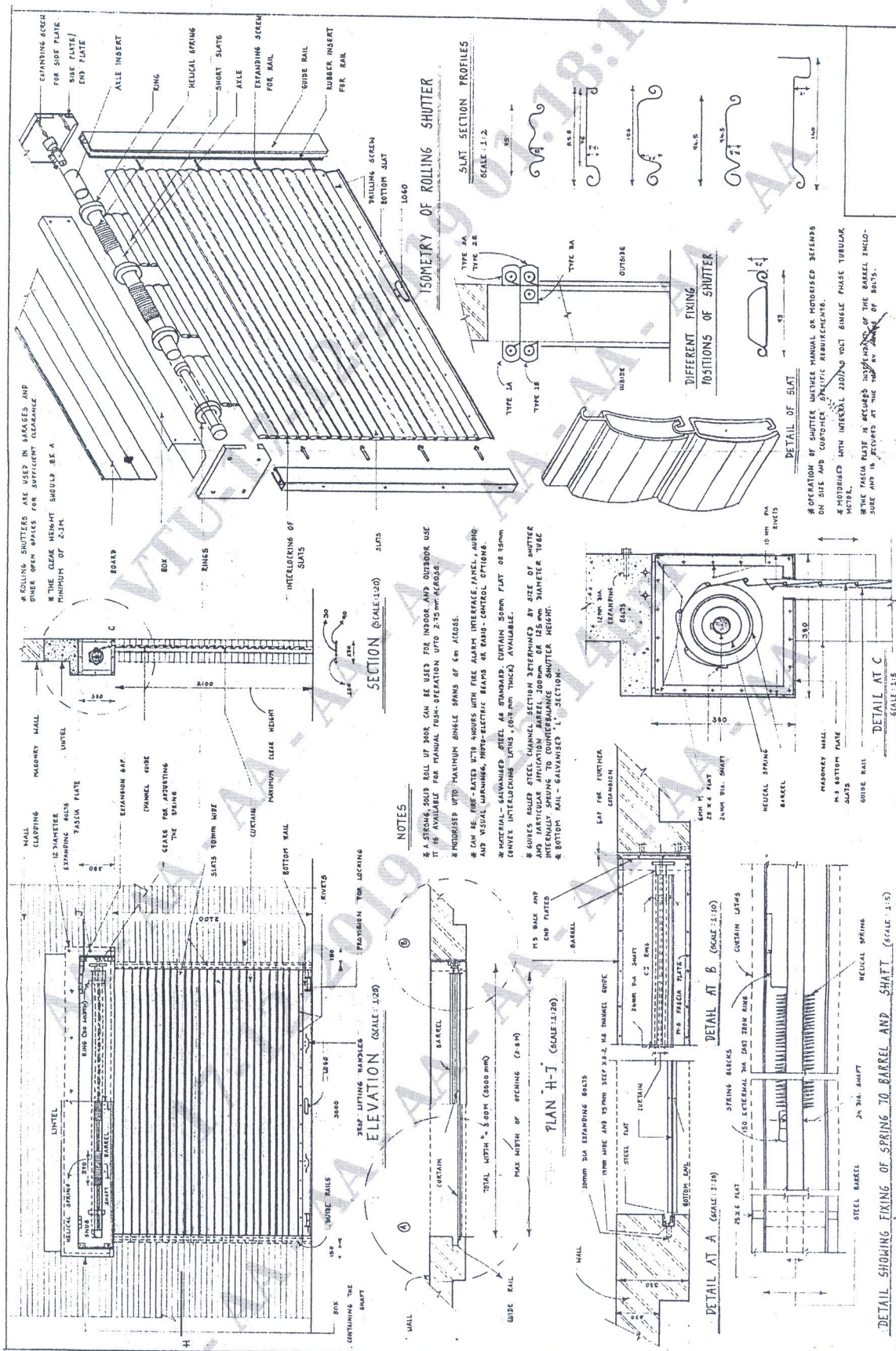
- 8 Draw plan, section, elevation with 2 details of rolling shutter for a span of 3m × 2.5m. (20 Marks)

Module-5

- 9 Draw Plan, Elevation and sections with joinery details of aluminum partition for a span of 10m × 2.1m. (20 Marks)

OR

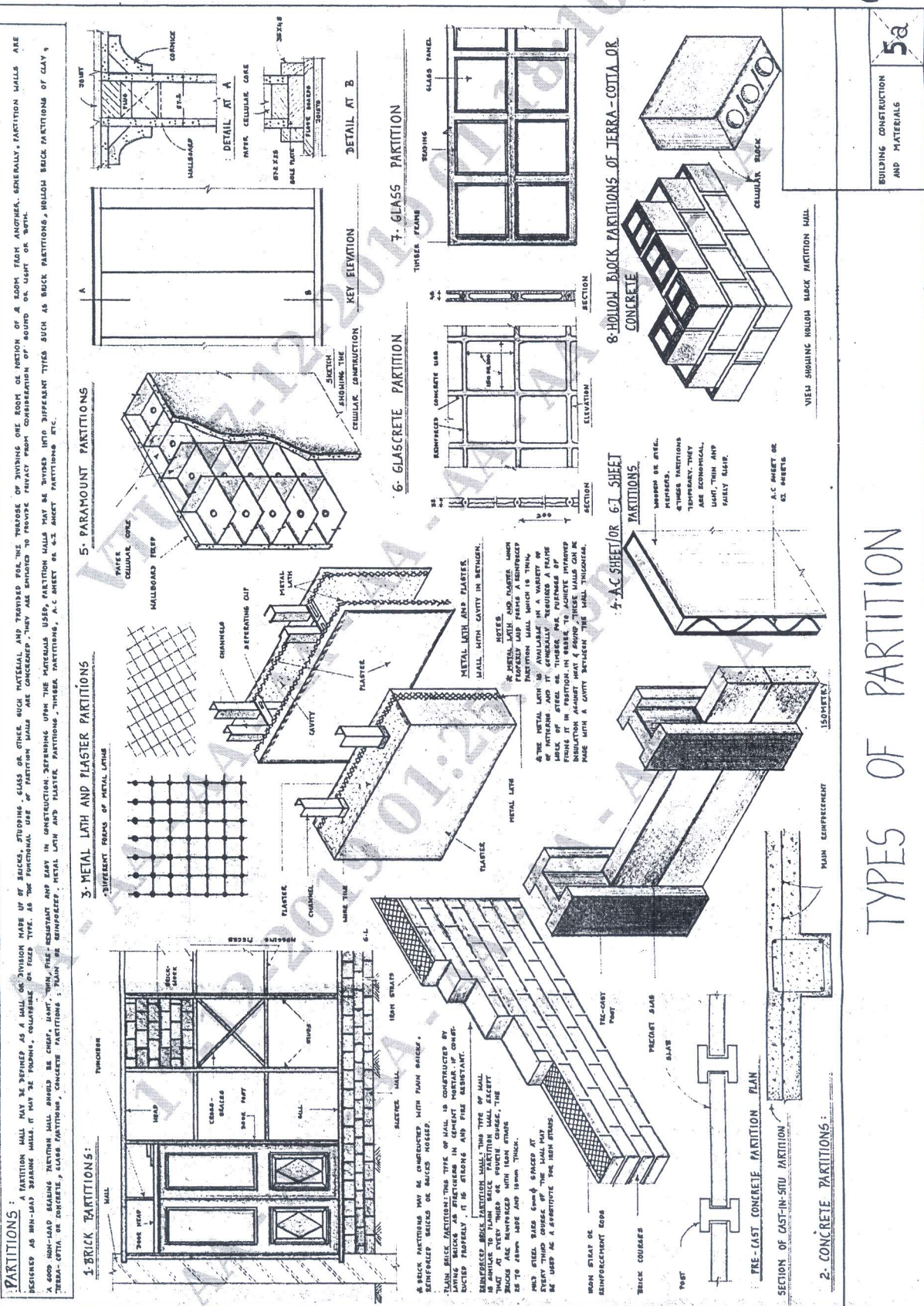
- 10 Draw plan, elevation and section with 2 details of Aluminum door of 1.2m × 2.1. (20 Marks)



ROLLING SHUTTERS

BUILDING CONSTRUCTION AND MATERIALS

1 of 1



TYPES OF PARTITION

BUILDING CONSTRUCTION AND MATERIALS

5a