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Fourth Semester B. Arch Degree Examination, Dec.2018/Jan.2019 **Materials Methods in Building Construction**

Time: 4 hrs.

details assuming suitable scale.

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

Module-1

- Discuss in details different types of flat slab and explain the design principles of it, along 1 (20 Marks) with its advantages and application.
- **OR** Draw to the suitable scale, portal frame of span 20mts, show keyplan section and detail. 2 (20 Marks)

Design a filler slab assuming suitable span for using room, consider any suitable filler 3 ii) Section iii) Detail. material. Draw. i) Plan (20 Marks) Assume suitable scale.

OR Propose a waffle slab for a lotton spanning 9m2. Draw plan section and Reinforcement (20 Marks)

Max. Marks: 100

Module-3 Give the definition of structural steel types, properties, uses and manufacturing methods. 5 (20 Marks)

Propose a steel column beam structure at suitable area, spanning 10mts, draw plan section 6 and 1 joint connection, assuming suitable scale. (20 Marks)

Module-4 Draw to the suitable scale steel door for garage of size 4 × 3 mts, draw plan elevation and 7 (20 Marks) section, assume suitable scale.

Propose a rolling shutter of span 3 × 3mts to an entrance of Girls hostel, assume suitable 8 (20 Marks) scale and draw plan, elevation and section.

Module-5 Discuss Aluminum properties and uses give a sketch of aluminium partition suitable area 9 (20 Marks) for span of 4mts. Sketch plan, elevation and detail.

Propose a sliding aluminium door for dining room size 2.5 × 2.1mts, Draw plan, elevation 10 (20 Marks) and section of detail to a suitable scale.

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8=50, will be treated as malpractice. Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.