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B.ARCHITECTURE - FOURTH SEMESTER, BUILDING CONSTRUCTION - IV, (RG/RP)

W/18

Max. Marks: 90

Duration of Exam: Four Hours

Note:

1. Attempt any TWO question each from Part - A.

- 2. Attempt any ONE question each from Part B.
- Attempt THREE questions in total.
- 4. All questions carry equal marks.
- 5. Do not erase the construction lines.
- 6. Credit will be given for neat drafting and labelling.
- 7. Choose a suitable scale for drawing.
- Assume any missing data and mention the same.

PART - A

- List down the various types of roof coverings, briefly explain their constituent Q1. properties and uses. Also explain the process of laying theses roof coverings with the help of sketches. (30)
- List down the various types of timber roofs. Briefly explain their salient features Q2. along with sketches. (30)
- A multipurpose hall of dimensions 10 metres X 30 metres is to be constructed for a Q3. school. The minimum height of the interior space is required to be 6 metres. Design an appropriate roofing system using built up timber trusses. Draw the plan/s, and cross section at an appropriate scale. Also draw the details of the truss, roof covering fixing, soffit, and rainwater drainage. (30)

PART - B

- Q4. A sliding and folding door is to be installed in a garage. The dimension of the opening is 4.5 metres wide and 2.75 metres high. Draw the plan, elevation, section, alongwith the relevant details on a suitable scale. (30)
- Q5. Design and detail a dog legged wooden staircase with a width of 1.2 metres and for a floor to floor height of 3 metres. Draw the plan/s, sectional elevation, elevation, and the appropriate details. (30)