

Roll No. 

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Total No. of Pages : 01

Total No. of Questions : 06

**B.Arch. (Sem.-4)**  
**BUILDING CONSTRUCTION - IV**  
**Subject Code : AR-402A**  
**M.Code : 78140**  
**Date of Examination : 02-07-22**

Time : 4 Hrs.

Max. Marks : 60

**INSTRUCTIONS TO CANDIDATES :**

1. Attempt FOUR questions in all selecting two questions from EACH PART.
2. Assume any missing data.
3. All questions carry EQUAL marks.

**PART-A**

1. List the Various roof covering materials which are generally used for pitched roofs. Describe the method of laying and fixing of any one of them with the help of neat sketches.
2. Explain the following with neat sketches :
  - a) Eaves and Gutter
  - b) Types of roofs
  - c) Timber built-up roof truss
3. Design and detail out a Queen Post roof truss for a hall of size 21'-0"×48'-0". Draw the plan of hall suggesting number of trusses. Draw elevation and jointing details of the truss on a suitable scale.

**PART-B**

4. Draw to a suitable scale the plan and cross section of a wooden straight flight staircase of 3'-3" wide and 9'-0' high.
5. Design and Draw complete details of a timber partition for a bank. The size of the hall is 30'-0" × 40'-0".
6. Explain the following with neat sketches :
  - a) Timber paneling
  - b) Dhajji wall

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**