

**BACHELOR OF ARCHITECTURE EXAMINATION, 2024**  
(2<sup>nd</sup> year B. Arch. 2<sup>nd</sup> Semester)

**SUBJECT: ARCHITECTURAL CONSTRUCTION-II**

**Time : Three hours**

**Full Marks: 100**

**Instructions: Answer for 100 marks**

**Use sketches wherever necessary.**

- 01 Describe why roof treatment is necessary over flat roofs of buildings. With suitable sketches, describe Lime concreting and terracing as a roof treatment detail. Describe the composition and process of laying lime concrete on a flat roof. Also describe another type of roof treatment detail which is much in practice in modern building construction. 25
- 02 Showing relevant details, draw and describe the various types of Doors. Show construction details of (a) Timber Panelled Door and (b) Flush Door 25
- 03 Describe the process of surface preparation for plastering work to be undertaken inside a room. Describe how plastering work is undertaken on a wall. Mention the different types of plastering that are usually adopted in a building. 25
- 04 Using suitable sketches, describe different types of Windows. Label the different parts of the windows. Draw details of construction of any one of the following:  
(a) Casement Windows, (b) Vertically sliding Windows, (c) Steel Windows 25
- 05 Using suitable sketches, describe various kinds of Staircases. Show components and construction details of various parts of a typical staircase. Also show any typical arrangement of reinforcements in a concrete staircase slab and its landings. 25
- 06 Write short notes on (any five): (5 X 5 = 25 marks) 25
  - (i) Khurra in roof terrace (with sketch)
  - (ii) Brick bat coba (with sketch)
  - (iii) Coping stone (with sketch)
  - (iv) Tongue and groove joint (with sketch)
  - (v) waist slab (with sketch)
  - (vi) Transom and mullion
  - (vii) Thicknesses of plastering for external wall, internal wall and ceiling
  - (viii) Reinforcement for chhaja (concrete sunshade projection) over window
  - (ix) Door hardwares (with sketches) for timber door and glass door
  - (x) Baluster and its fixing details