

**BACHELOR OF ARCHITECTURE EXAMINATION, 2022**  
**(B. Arch. 2nd year 2nd Semester)**

**SUBJECT: ARCHITECTURAL CONSTRUCTION- II**

**Time : Three hours**

**Full Marks: 70**

**Instructions:**

- 1) Answer to Question number 06 (compulsory) and answer to any three others from the rest
- 2) Use sketches wherever necessary
- 3) All answers should be hand-written only

01. Describe the different types of plastering used in building works. Describe in detail how construction works of plain plastering in buildings are undertaken. Describe the thicknesses of plastering for ceiling, external and internal walls.

With the help of appropriate sketches, name the different architectural mouldings used in classical architecture.

20

02. Describe the causes, symptoms and remedies of dampness in a building. Describe the method of construction of a simple vaulted roof. Make technical interpretation of a vault and a dome with reference to an arch.

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03. Describe why roof treatment is necessary over flat roofs of buildings. With appropriate sketches, describe any two different types of treatment of roofs against possible percolation and seepage of water from the roof. Describe the role of 'Ridge' and 'Valley' lines with respect to roof water drainage.

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04. Using appropriate sketches, mention the names of different types of Windows. Describe in brief their individual characteristics.

Using appropriate sketches, show construction details of a typical Timber Paneled Door.

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05. With the help of appropriate sketches, describe various types of Staircases. Show components and construction details of various parts of a typical staircase. Describe the role of 'Stringers' in a staircase. Draw detail of construction of grouting of a baluster with the floor. Draw detail of construction of a Hand rail of a staircase.

20

06. Write short notes on (any two):

(5X2)= 10

- (i) Fan Light window
- (ii) Waist slab
- (iii) Reinforcement arrangement for a window chhaja
- (iv) Ingredients and their quantities (per cu.m. of concrete) in 1:1.5:3 concrete
- (v) Jamb
- (vi) Patch fitting