

**BACHELOR OF ARCHITECTURE EXAMINATION, 2017**  
(B. Arch. 2nd year 2nd Semester)

**SUBJECT: ARCHITECTURAL CONSTRUCTION- II**

Time : Three hours

Full Marks: 100

Instructions: Answer for 100 marks. Use sketches wherever necessary

01. Describe 'Dampness in Buildings'. Also describe the causes, symptoms and remedies of dampness in a building.  
Describe the remedial measures against occurrence of dampness in a building. Describe the details of construction of DPC.  
What are the necessities for special protection for plinths of buildings? Draw a suitable sketch for a standard protective measure for the plinth of a building and label different parts of it. 25
02. Describe why roof treatment is necessary over flat roofs of buildings. With suitable sketches, describe Lime concreting and terracing as a roof treatment detail. Also describe any one type of roof treatment detail which is much in practice in modern building construction.  
Describe the usage of Decorative mouldings in Architecture. Draw and name the various Decorative mouldings that are used in Architecture. 25
03. Show construction details of  
(a) Timber Panelled Door and  
(b) Vertically sliding window operating against counterweights 25
04. With the help of appropriate sketches, describe various types of Staircases. Show components and construction details of various parts of a typical staircase. Explain the role of 'Stringers' in old staircases. Also show any typical arrangement of reinforcements in a concrete staircase slab and its landings. 25
05. Describe the process of surface preparation for plastering work to be undertaken. Describe how plastering work is undertaken on a wall. Mention the different types of plastering that are usually adopted in a building.  
Using suitable sketches, describe different types of Windows. Draw details of construction of 'Fan-Light' window. 25
06. Write short notes on (any five): (5X5)= 25
- (i) Newel post
  - (ii) Construction of arch
  - (iii) Efflorescence and Salt Petre action
  - (iv) Waist slab
  - (v) Reinforcement arrangement in a cantilevered beam
  - (vi) Ingredients and their quantities (per cu.m. of concrete) in 1:1.5:3 concrete
  - (vii) Details at a window sill
  - (viii) Details of a typical Baluster and its grouting
  - (ix) Paver Blocks
  - (x) Transoms and Mullions