BACHELOR OF ARCHITECTURE EXAMINATION, 2018
(B. Arch. 2nd year 2nd semester)

Subject: ARCHITECTURAL CONSTRUCTION-II

Time: 3 hours   Full Marks: 100

Instructions: Answer for 100 marks. Use sketches wherever necessary

01.   Describe how dampness occurs in a building. What are the effects of Dampness in a building? Describe the remedial measures against occurrence of dampness in a building. Describe an appropriate measure in the interior wall close to the plinth level to facilitate evaporation of dampness.

Describe how the plinth of a building should be protected from occurrence of dampness.   25

02.   Tabulate the quantitative requirements of ingredients for plastering on walls and ceiling of a building. Mention and describe the different types of plastering in a building.

Describe why the flat roof of a building is required to be specially treated. Using suitable sketches describe any two different types of treatment of roof.   25

03.   Draw a labeled section through the window of a building. Draw reinforcement arrangement for the window chhaja. Draw a detailed sectional view of a 'Fan-Light' or draw plan, elevation and details for a timber paneled door with panel and sash inserts.   25

04.   Using appropriate sketches, describe different types of windows used in residential buildings. Draw elevation, section and details of a Venetian window.   25

05.   Using suitable sketches, describe various kinds of Staircases. Discuss upon treads and risers for a staircase. Show components and construction details of various parts of a typical staircase. Also show the arrangement of reinforcements in a concrete folded plate staircase steps. Draw detail for grouting of a baluster. Draw detail for a 'Newel post'.   25

06.   Write short notes on (any five):   (5 X 5= 25)

      (i)   Construction of DPC
      (ii)   Composition of OPC
      (iii)   Architectural mouldings
      (iv)   Waist slab
      (v)   Reinforcement arrangement in a beam supported at two fixed ends
      (vi)   Rain water gutter
      (vii)   Paving
      (viii)   Details at a window sill
      (ix)   Balustrade
      (x)   Cast iron and MS railings