

KATHMANDU UNIVERSITY
End Semester Examination
June/July, 2023

30 JUN 2023

Level : B.Arch.
Year : II
Time : 2 hrs. 30 mins.

Course : ARCH 203
Semester : I
F. M. : 40

SECTION "B"

[10Q × 2 = 20 marks]

Write short notes on *ANY TEN* of the following. Students are encouraged to support their answers with necessary figures, illustration and drawings.

1. Garden wall bond
2. Foil Arch
3. Brick stone composite masonry
4. Stay bracing
5. Pile foundation
6. DPC treatment of floors
7. Soil bearing capacity
8. Advantage of cavity walls
9. Building Finishes
10. Dry rubble masonry
11. Cantilever footing

SECTION "C"

[4Q × 5 = 20 marks]

Attempt *ALL* questions.

12. What is brick bonding? Explain the precautions and the procedure used in constructing one and half brick thick wall in English bond with relevant sketches.
13. Why soil exploration is important before any construction work? Explain the methods of soil exploration.

OR

What are the various steps to be followed for the site works and setting out? Describe briefly the process of setting out for a residential building.

14. What is damp proofing in case of building? Explain the defects caused by dampness in building. Draw neat sketches of damp proof treatment to parapet wall.
15. What are cavity walls? Show a section of a cavity wall from foundation to a parapet coping.