

MANIPAL ACADEMY OF HIGHER EDUCATION
FIRST SEMESTER B. DES. (ID) DEGREE EXAMINATION – JAN/FEB 2018
SUBJECT: BID 109 – BUILDING CONSTRUCTION MATERIALS - I

Saturday, January 27, 2018

Time: 10:00 – 14:00 Hrs.

Max. Marks: 50

✍ Answer any **FOUR** questions from **PART A** and any **ONE** question from **PART B**.

PART – A

1. Draw the elevation of wall size 6m x 4m (Scale 1:50)
 - 1A. English Bond
 - 1B. Basket Weave

(10 marks)
2. **Explain with sketches:**
 - 2A. Ashlar Chamfered Masonry
 - 2B. Ashlar Quarry Faced Masonry

(5+5 = 10 marks)
3. Design a feature wall of 4m x 3m showing different brick bonds (Scale 1:20).

(10 marks)
4. Draw a Gothic arch using bricks for a span of 3m wide and label its parts.

(10 marks)
- 5A. **Sketch the following:**
 - i) King and Queen Closer
 - ii) Polygonal stone masonry
- 5B. Draw elevation and section of Random Rubble Uncoursed Masonry (Wall size 3m x 3m)
(Scale 1:20)

(5+5 = 10 marks)

PART – B

6. Discuss the various types of Plastering.

(10 marks)
7. Discuss briefly the Dressing of stones in stone masonry (with sketches)

(10 marks)

