

Reg. No.									
----------	--	--	--	--	--	--	--	--	--

## MANIPAL UNIVERSITY

**FIRST SEMESTER B. DES. (ID) DEGREE EXAMINATION – NOVEMBER 2017**

**SUBJECT: BID 109 – BUILDING CONSTRUCTION MATERIALS - I**

Friday, November 10, 2017

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 a Tudor arch using bricks for a span 3m wide and label its parts. (10 marks)
  
2. Draw the following Brick Bonds in elevation assuming suitable scale:
  - 2A. Flemish Bond
  - 2B. Herringbone(10 marks)
  
3. Design a feature wall of 4m x 3m using brick bonds of various types. Assume suitable scale. (10 marks)
  
- 4A. **Explain the following:**
  - i) Queen Closer & King Closer
  - ii) Mitred Closer & Bevelled Bat
- 4B. **Sketch the following elevations:**
  - i) Square rubble uncoursed Masonry
  - ii) Polygonal stone masonry(5+5 = 10 marks)
  
5. **Explain with sketches:**
  - 5A. Ashlar Rock faced Masonry
  - 5B. Ashlar Furrowed faced Masonry(5+5 = 10 marks)

### PART – B

6. Discuss the various types of Plastering. (10 marks)
  
7. Describe the classification of Bricks. (10 marks)

