

Reg. No.

MANIPAL ACADEMY OF HIGHER EDUCATION
FIRST SEMESTER B. DES. (ID) DEGREE EXAMINATION – JAN/FEB 2019
SUBJECT: BID 109 – BUILDING CONSTRUCTION MATERIALS – I
(2015 SCHEME)

Monday, February 04, 2019

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. Design a feature wall of 4m × 3m using brick bonds of various types. Assume suitable scale.
(10 marks)

2. Draw a segmental arch using bricks for a span 3m wide and label its parts.
(10 marks)

3. Draw the following Brick Bonds in elevation assuming suitable scale:

3A. English Bond

3B. Flemish Bond

(10 marks)

4A. Explain the following:

i) Stretcher & header

ii) Quarter bat & half bat

4B. Sketch the following elevations:

i) Stretcher bond

ii) Herringbone bond

(5+5 = 10 marks)

5. Draw and label the following:

5A. Random rubble uncoursed masonry

5B. Polygonal masonry

(5+5 = 10 marks)

PART – B

6. Discuss the various types of defects in Paints.
(10 marks)

7. Write short notes on clay and its properties.
(10 marks)

