

MANIPAL ACADEMY OF HIGHER EDUCATION
SECOND SEMESTER B. DES. (ID)/B.A. (ID) DEGREE EXAMINATION – APRIL 2018
SUBJECT: BID 110 – BUILDING CONSTRUCTION & MATERIALS II

Thursday, April 19, 2018

Time: 10:00 – 14:00 Hrs.

Max. Marks: 50

- ✍ **Question-1 is compulsory.**
- ✍ **Answer any TWO questions from PART-A (out of question no. 2,3,4).**
- ✍ **Answer any ONE question from PART-B**

1. Draw Plan and Section of paneled door to be fitted in the opening of 900 mm × 2100 mm as follows:
- 1A. Plan -1:10
 - 1B. Section-1:10
 - 1C. Any two Details

(4+3½+5 = 12½ marks)

PART-A

2. **Explain with neat sketches:**
- 2A. Glass-Beading detail in door
 - 2B. Hinge detail for door
 - 2C. Connection between principal rafter and common rafter

(3+3+6½ = 12½ marks)

3. **Sketch and label the following:**

- 3A. Dove tail
- 3B. Rabbet joint
- 3C. Dog legged staircase
- 3D. Straight staircase

(3+3+3½+3 = 12½ marks)

4. **Distinguish between the following with neat sketches:**

- 4A. Tongue- groove and mortise-Tenon
- 4B. Straight staircase and Spiral staircase

(6½+6 = 12½ marks)

PART-B

5A. What are the different varieties of glass?

5B. Mention different uses of ceramics in interiors.

(4+8½ = 12½ marks)

6A. Mention the applications of any three types of glasses with sketches.

6B. What is timber seasoning? Why is it done? Explain natural seasoning with supporting sketches.

(5+7½ = 12½ marks)

