

MANIPAL UNIVERSITY

FOURTH SEMESTER B.A. (ID)/B.DES (ID) DEGREE EXAMINATION – JULY 2017

SUBJECT: BID 204 – BUILDING CONSTRUCTION AND MATERIALS IV

Tuesday, July 18, 2017

Time: 10:00 – 14:00 Hrs.

Max. Marks: 50

✍ Question 1 is Compulsory.

✍ Attempt any 3 out of Question number 2, 3, 4, 5 and 6.

✍ Support your answer with neat sketches.

1. For an Art Gallery of size 12m x 10m with height of 4m, design the display and layout of partitions.

Draft the following:

- 1A. Plan with Partition Layout
1B. Section of Partition walls
1C. A Minimum of 3 partition wall details

(6+5+9 = 20 marks)

2. Design a study table for a college student

- 2A. Sketch top view, front view, side view and isometric views
2B. Sketch exploded view
2C. A Minimum of 3 joinery details

(4+3+3 = 10 marks)

3. Draw a section of a wardrobe for the space of 1800mm x 2100m x 450mm (LxHxB)

(10 marks)

- 4A. Write short notes on any two of following:

- i) Reduce, Reuse, Recycle
ii) Hempcrete
iii) Embodied Energy

(2½+2½ = 5 marks)

- 4B. Explain properties and uses of wooden Cladding systems.

(5 marks)

- 5A. List different Rating systems for Sustainable Materials.

- 5B. Give a sustainable material as a replacement for a conventional gypsum board partition.
Support your answer with sketches explaining its advantages and disadvantages

(4+6 = 10 marks)

- 6A. Write advantages of modular Furniture.

- 6B. According to LEED, what are the different steps involved in achieving good Indoor Environment Quality.

(4+6 = 10 marks)

