

PARUL UNIVERSITY
FACULTY OF ARCHITECTURE
B. Arch./ B. ID, Summer 2017-18 Examination

Semester: 1**Date: 07/05/2018****Subject Code: 01101102****Time: 10:00 am to 1:00 pm****Subject Name: Building Materials & Construction Technology-I****Total Marks: 50**

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions whenever required.
4. Draw suitable sketches whenever required.

Q.1 What is Brick Bond? Enlist various types of brick bonds. And draw the elevation, plan & isometric view of English bond. **(10)**

Q.2 Attempt **any five** out of the following six. **(20)**

Define the following:-

- 1) a) Header. b) Course. c) Pointing. d) Keystone.
- 2) Write short note on classification of bricks.
- 3) What is Ashlar Masonry? Enlist its types.
- 4) Sketch four bamboo joineries.
- 5) Explain the importance of using processed bamboo in construction with advantages.
- 6) Write about the characteristics of bamboo as a building material.

Q.3 Explain the following in brief. (**Any five**) **(10)**

1. Wattle and daub.
2. Uncoursed rubble masonry
3. Rammed earth.
4. Flemish bond.
5. Burning of bricks.
6. Sun dried bricks.

Q.4 Answer **any two** out the following three. **(10)**

- 1) Define Arch. Enlist & define any four types of arches, with schematic sketch.
- 2) Give the Classification of rock & enlist the types of stones.
- 3) What are the advantages and disadvantages of bamboo as a building material?