Roll No. ..... **Total no. of pages: 01**
Total no. Of Questions: 07

B.Arch. (Semester: 1st)
BUILDING CONSTRUCTION - I
Subject Code: BARC1 – 102
Paper ID: [120102]

Time: 03 Hours **Maximum marks: 60**

Instructions to candidates:

1. Question no. 1 is compulsory.
2. Attempt any four questions from Unit I, II & III, selecting at least one question from each unit.

Unit -I **(20 marks each)**

Q1. Draw Plans and Elevations of both sides of 345 mm thick wall in Single Flemish Bond.

Q2. Draw Plans and Elevation of T- Junction of 230 mm thick wall with 115mm thick wall in English Bond.

Unit -II **(20 marks each)**

Q3. Draw a Segmental arch in brick for an opening of 1.2m showing plan, section and elevation.

Q4. Explain various types of Ashlar stone masonry. Support your answer with drawings & sketches to explain these types as per requirement.

Unit -III **(20 marks each)**

Q5. Draw a complete section through a single storey load bearing external wall of a house incorporating window sill & lintel, plinth protection details, parapet, coping & gola details.

Q6. Draw the following details:

a. Plinth detail
b. D.P.C. detail of external & internal wall
c. Parapet detail including Coping
d. Lintel detail of Door