SEAT No.	:	

P1565

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[4962] - 1001 F.Y. B.Arch.

BUILDING TECHNOLOGY & MATERIALS-I

(2015 Pattern) (Semester - I)

Time: 3 Hours] [Max. Marks: 70

Instructions to the candidates :-

- 1) Answers to Section I, to be given on drawing sheets only.
- 2) Answers to Section II to be given on answer sheets only.
- 3) All questions are compulsory.
- 4) Draw neat sketches wherever necessary.
- 5) Figures to the right of each question indicate full marks.
- 6) Assume suitable data wherever necessary.

SECTION - I

Q1) a) Draw at scale of 1:10; plan, section, elevation of "Squared Rubble Masonary" Stop end wall of height 1.2 meters, length 2.5 meters and depth of foundation 0.6 meters.[20]

OR

- b) Draw at scale of 1:10 plans section. Elevation of 350 thick stop end wall in double flemish bond of height up to 10 courses length 1.8 meters and depth of foundation 0.6 meters.
- Q2) Draw neat sketches (Any three) (on drawing sheet only) [15]
 - a) Draw plans of foundation of 350 thick detached pier up to three courses.
 - b) Draw neat sketch of segmental arch showing its components.
 - c) Draw neat sketch of, alternate courses of "Cross" junction in 230 thick brick wall.
 - d) Draw neat sketch of cross section of internal wall.
 - e) Draw neat sketches of Any three tools used for excavation.

P.T.O.

SECTION - II

Q3) Explain in detail with sketches (Any two)

[20]

- a) What is coping? Draw sketches of four types of coping.
- b) Plan of alternate courses of Attached pier in
 - i) Wall of one brick thick (230 thick)
 - ii) Wall of one and half brick thick (350 thick) in english bond.
- c) Explain with sketches Earthquake resistance measures for Load bearing construction.

Q4) Write short notes on (Any three)

[15]

- a) Advantages of brick as construction material.
- b) Classification of rocks.
- c) Different types of soil.
- d) Qualities of good stone.
- e) Three types of stone dressing.

