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Seat No.	
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[5252]-101

S.E (Civil) (I Sem.) EXAMINATION 2017
BUILDING TECHNOLOGY AND MATERIALS
(2012 PATTERN)

Time : Two Hours

Maximum Marks : 50

N.B. :— (i) Answer Q. 1 *or* Q. 2, Q. 3 *or* Q. 4, Q. 5 *or* Q. 6
Q. 7 *or* Q. 8.

(ii) Neat diagrams must be drawn wherever necessary.

(iii) Figures to the right indicate full marks.

(iv) Assume suitable data, if necessary.

1. (a) It is proposed to construct a residential building on black cotton soil. Which type of foundation is suitable in such condition ? Comment with reasons. [6]
(b) What is underpinning ? Explain the Pit method with labeled figure. [6]
2. (a) Where is Coursed rubble masonry being used ? Explain course rubble masonry with a neat and labeled figure. [6]
(b) Enlist types of plastering. Explain advantages and limitations of gypsum plaster. [6]
3. (a) With a neat and labeled figure explain chequer method of floor construction. [6]
(b) Draw a neat and labeled figure of semicircular arch. [6]

P.T.O.

4. (a) Explain the advantage and disadvantage of flat roofs. [6]
(b) Explain with neat sketches any *three* types of hinges used for doors and windows. [6]
5. (a) Discuss the requirements of a good staircase with reference to : [7]
(i) Location
(ii) Materials
(iii) Width and length of stair
(iv) Pitch of stair
(v) Headroom
(vi) Rise and Tread and
(vii) Number of steps in a flight.
(b) Write a short note on wall cladding. [6]
6. (a) Write short notes on : [6]
(i) Elevators
(ii) Ramps.
(b) Write a note on "Defects in Painting". [7]
7. (a) Explain the precautions to be taken for storing materials on site. [6]
(b) What is shoring ? Explain Raking shores. [7]
8. (a) Write short notes on : [7]
(i) Defects in timer
(ii) Types of Glass and their properties used in construction
(b) Write a note on Ceramic products in construction". [6]