

Total No. of Questions—8]

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Seat No.	
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**[4757]-1002**

**S.E. (Civil) (I Sem.) EXAMINATION, 2015**  
**BUILDING TECHNOLOGY AND MATERIALS**  
**(2012 PATTERN)**

**Time : Two Hours****Maximum Marks : 50**

**N.B. :-** (i) Answer Q. No. 1 or Q. No. 2, Q. No. 3 or  
 Q. No. 4, Q. No. 5 or Q. No. 6, Q. No. 7 or  
 Q. No. 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) Discuss the need of Damp Proof course for roofs and  
 basement. [6]
- (b) Discuss the properties of a good brick used in construction. [6]

*Or*

2. (a) Write a short note on English bond with a neat labelled  
 diagram. [6]
- (b) Discuss the method underpinning. [6]

P.T.O.

3. (a) With a figure explain the Chequer board method of construction of floors. [6]
- (b) Draw a neat, labelled figured of semi-circular arch and name the various components. [6]

*Or*

4. (a) Explain the IS specifications for Cement concrete flooring tiles. [6]
- (b) Explain the following with sketches : [6]
- (i) Dormer window
  - (ii) Meeting style
  - (iii) Barrel bolt.
5. (a) Explain the following with sketches : [6]
- (i) Baluster
  - (ii) Scotia
  - (iii) Landing.
- (b) Explain the types of Lintels and discuss about any *two*. [7]

*Or*

6. (a) State the requirements of a good stair with respect to : [7]
- (i) Pitch
  - (ii) Head room
  - (iii) Location
  - (iv) Number of steps in a flight
  - (v) Rise and Tread
  - (vi) Width of stair.

- (b) Enlist types of stairs depending on the materials of construction.  
Explain any *one* in detail. [6]
7. (a) Define seasoning of timber. Explain defects in timber. [6]  
(b) Enlist types of pointing and explain any *three* types of pointing  
with figures. [7]
- Or*
8. (a) Draw the figures showing different types of pointing. [7]  
(b) Write a short note on Wall cladding. [6]