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**[5459]-101**

**S.E. (Civil) (I Semester) EXAMINATION, 2018**  
**BUILDING TECHNOLOGY AND MATERIALS**  
**(2015 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) Explain the characteristics of bricks used in construction.[6]  
(b) List the advantages of using hollow concrete block masonry.[6]

*Or*

2. (a) Write a note on “Foundation in Black Cotton Soil. [6]  
(b) Enlist “Various curing methods” and explain any *one* with sketch.[6]

3. (a) Enlist different types of flooring. Explain any *one* in detail.[6]  
(b) Draw a neat labelled figure (minimum 6 labels) of a semi-circular arch and explain the concept of arch action. [6]

*Or*

4. (a) Write a note on “Grain storage structures.” [6]  
(b) Explain Skylight window with a neat sketch. [6]

5. (a) List any 4 types of staircases. Explain quarter turn stairs with a neat figure. [7]

P.T.O.

(b) Write a note on “Wall Cladding”. [6]

*Or*

6. (a) Write short notes on : [6]

(i) Escalators

(ii) Lifts.

(b) Write a note on “White Washing.” [7]

7. (a) Explain the precautions to be taken on site by the workers to prevent accidents. [6]

(b) Write a note on different eco-friendly materials in construction. [7]

*Or*

8. (a) Give the details of ‘Applications of aluminum stainless steel and fiber reinforced polymers in construction’. [6]

(b) Explain the terms Strutting and Shoring with sketches. [7]