Total No. of Questions—8]

[Total No. of Printed Pages—2

Seat	_	
No.		7

[5252]-501

## S.E. (Civil Engineering) (First Semester) EXAMINATION, 2017 BUILDING TECHNOLOGY AND MATERIALS (2015 **PATTERN**)

Time: Two Hours

Maximum Marks: 50

- N.B. :- (i) Attempt Q. 1 or Q. 2, Q. 3 or Q. 4, Q. 5 or Q. 6, Q. 7 or Q. 8.
  - Figures to the right indicate full marks.
  - Draw neat sketch wherever necessary. (iii)
- Enlist different shallow and deep foundations and describe one 1. (a)in each category. [6]
  - (*b*) Write a short note on composite masonry with explanatory sketch. [6]

Explain the following terms: 2. (a)Bond, Through stone, Stretcher.

[6]

(*b*) Explain in depth: Slip form work.

[6]

Give the detailed process of tile flooring. 3. (a)

[6]

(*b*) Draw a sketch of "Casement Window" indicating all the terms.

[6]

Write a short note on space frames. 4. (a)

[6]

P.T.O.

	<i>(b)</i>	explain the following terms (by drawing a sketch inclusive of all):
		abutment. voussoirs, extrados. [6]
<b>5.</b>	(a)	Design a dog legged stair for commercial building with 3.3
		m height with riser height of 0.15 m and tread width 0.3
		m with flight width of 1.5 m. Draw a neat sketch for the
		same. [7]
	( <i>b</i> )	Explain in depth the purpose of protective coatings. [6]
		Or
<b>6.</b>	( <i>a</i> )	Write a note on "applicability of lifts and escalators". [6]
	( <i>b</i> )	Explain the term Pointing and its applications by drawing
		minimum 3 types. [7]
<b>7.</b>	( <i>a</i> )	Why and where aluminum products are used? [6]
	( <i>b</i> )	Explain in depth the term shoring with explanatory sketch
		(any one category): Shoring. [7]
		Ore
8.	( <i>a</i> )	Why ecofriendly materials are important? Explain by giving
		appropriate examples. [6]
	( <i>b</i> )	What precautions are to be taken while storing the materials
		on site? Explain by giving appropriate examples. [7]
		what precautions are to be taken while storing the materials on site? Explain by giving appropriate examples. [7]
[5252	2]-501	2