17308

3 H	Iours / 100 M	larks	Seat N	0.							
	Instructions: (1) All questions are compulsory.										
	(2) Answer each next main question on a new page.										
			strate your ansv					hereve	e r nec	essary	<i>)</i> .
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		devi	ces are not per	missib	le in Ex	camına	tion E	tall.			
										N	Marks
1.	A) Attempt any six of the following:								(6×	2=12)	
	a) List out any four types of pile foundation.										
	b) Define corbel, cornice.										
	c) List any four types of doors.										
	d) State the various means of vertical communications.										
	e) Define the following terms with reference to stairs:										
	i) Winders										
	ii) Landing.										
	f) State any two purposes of plastering.										
	g) State two causes of cracks in masonry work.										
	h) Give four co	omponents	of door frame.								
	B) Attempt any two of the following:								(4	×2=8)	
	i) Define superstructure. List six components of superstructure of residential building.							ing.			
	ii) Give four precautions you will take while marking foundation of residential building.										
	iii) Explain tim	bering and s	strutting for foun	dation t	rench.						
2.	Attempt any four:									(4×	:4 =16)
	a) Explain the functio	ns of:								`	ĺ
	i) Sill		ii) Lintel								
	iii) Plinth		iv) Weather	shed							
	b) Explain the role of	maintenan	ce and repairs in	the use	ful life o	of a buil	lding.				
	c) Explain the proced	ure for plint	h filling.				-				

d) State any four purposes of foundation.



Marks

- e) State the situations where you would recommend the following type of foundation:
 - i) well foundation

ii) stepped foundation

iii) raft foundation

- iv) pile foundation
- f) Compare stone masonry and brick masonry with respect to any four points.

3. Attempt any four:

 $(4 \times 4 = 16)$

- a) Draw a neat sketch of masonry and show the following components:
 - 1) facing

- 2) backing
- 3) bond stone
- 4) hearting
- b) Enlist the functions of an lintel and sketch a R.C.C. lintel in section.
- c) Which type of door you would suggest for the following situation.
 - 1) Main entrance of a residential bungalow.
 - 2) Bathroom and w/c.
 - 3) Shop.
 - 4) Computer laboratory.
- d) State four requirements of good stair case.
- e) Explain tremix flooring. Also state where it is provided.
- f) Describe procedure of laying pavement blocks.

4. Attempt any four:

 $(4 \times 4 = 16)$

- a) Compare pitched roof and flat roof with respect to any four points.
- b) List four defects in plastering. Describe any one in detail.
- c) Explain the procedure of internal plaster.
- d) Distinguish between plastering and pointing.
- e) State causes of settlement of foundation.
- f) Mention the purpose of guniting and grouting.

5. Attempt any four:

 $(4 \times 4 = 16)$

- a) Suggest construction places recommended for epoxy and crack fills.
- b) State methods of pre-tensioning and post tensioning.
- c) State all methods of dewatering.
- d) Explain Tremy method for under water concreting.
- e) State four advantages of RMC.
- f) Suggest the places where soil reinforcing technique is adopted now a days.

6. Attempt any two:

 $(8 \times 2 = 16)$

- a) Define Cofferdam. Give the classification of Cofferdam. Explain single walled cofferdam construction with neat sketch.
- b) Why expansion joints are provided in brick masonry? Describe the procedure for construction of expansion joint in brick masonry.
- c) State the methods of pre-fabrication. Give four advantages and disadvantages of pre-fabrication.