## 17308

3 Hours / 100 M	arks	Seat N	o						
Instructions :	<ul><li>(2) Illustr</li><li>(3) Figure</li><li>(4) Assum</li><li>(5) Mobile</li></ul>	estions are cate your anses to the <b>righ</b> se suitable does not person are <b>not</b> person are not pe	wers wi Int indica ata, if <b>ne</b> ger and	th neat ite <b>full</b> ecessai any oti	mark y. her Ele	s. ectron	nic Co	·	
								N	Marks
i) Define Neeru fir ii) Define: ii) Weathering iii) Give four comp iv) What is purpos v) List any four fo vi) State any four o vii) Define term: i) Guniting ii) Grouting.	nishing.  g ii) The conents of dose of winder rms of stairs	nrough stone. oor frame. step ?	int.						12
viii) Name any four  B) Attempt <b>any two</b> of  i) State the suitab  ii) What is necessiii) Explain timberi	the followin ility of load l ity of dewate	g: bearing and f ering of found	ramed st	ructure					8
2. Attempt any four of the a) Discuss general rule	following.								16
b) Explain the function	of the follow	wing compon	ents of su	ıperstrı	acture :				

e) Draw neat sketch of under-reamed pile foundation and state situation under which it is adopted.

d) What are requirements of good foundation?

f) What are the requirements of good stone masonry?

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Marks

3.	Attemptany	four	of the	follo	wing.

16

- a) Explain English bond and Flemish bond in brickwork with neat sketches.
- b) State four types of doors used in residential buildings and draw sketches of any two types.
- c) Explain procedure for replacing glass of existing sliding window.
- d) Mention suitability and draw neat labelled sketch of bifurcated staircase.
- e) State any four advantages of steel roof trusses.
- f) Explain king post truss and queen post truss with suitability of each.

## 4. Attemptany four of the following.

16

- a) Describe the procedure of laying shahabad stone floor.
- b) Explain any two defects in plastering with its neat sketch.
- c) Discuss in detail the procedure of pointing.
- d) Differentiate between white wash and distemper.
- e) Describe any two causes of formation of cracks in walls and measures adopted to prevent them.
- f) Explain water proofing with respect to necessity and importance.

## 5. Attemptany four of the following.

16

- a) Draw the sketches of formwork for column and beam.
- b) Define pre-fabricated structures. Mention any four advantages and disadvantages of pre-fabrication.
- c) State the precautions to be taken while constructing a foundation in black cotton soil.
- d) What is roller compacted concrete? State the properties and uses of roller compacted concrete.
- e) Explain meaning and application of tremix concreting.
- f) Describe properties and uses of steel fibre reinforced concrete.

## **6.** Attempt **any two** of the following.

16

- a) Explain with sketch:
  - i) Friction piles
- ii) End bearing piles.
- b) Make the comparison between brick masonry and stone masonry.
- c) Explain pre-tensioning and post-tensioning methods of prestressed concrete.