Roll No.: 1.7.8.2.3.0.0.4.4...

Total No. of Questions: 5]

[Total No. of Printed Pages: 4

UITians

## EG-294

## B.E. III Semester (CGPA) Civil Engg. Examination 2018

## BUILDING DESIGN AND DRAWING

Paper - CE-306

Time Allowed: Three Hours]

[Maximum Marks: 60

Note: Attempt all questions. All questions carry equal marks.

- Q.1. a) Define foundations and mention their objects.
  - (b) Give sketches of
    - i) Grillage foundation
    - ii) Stepped foundation

P.T.O.

## OR

Design a proper layout of an R hospital consists of ground floof from the following data:	
Inside dimensions of stair case	$6.00 \text{m} \times 4.50 \text{m}$
Height of each floor	3.75m
Thickness of floor slab	150mm
Height of stair cabin	2.50m
Width of stair	1.50m
Show plan and section	

Q.2. a) Write short notes on

6

- i) Economy
- ii) Sanitation
- iii) Privacy
- b) Write General rules and design guidelines for natural ventilation according to BIS3362. 6

OR

YA18-271

EG-294

Contd...

	c)	Write short notes on:	5
		i) Artificial ventilation	
		ii) General principles of window design fo good day light (IS:2440)	r
	d	What do you mean by Elegance and Roominess?	d 6
Q.3.	a)	Discuss various types of stairs used in building.	n 6
	b)	Write short notes on	6
		i) Gully trap	
		ii) Wash basin	
		iii) Stop values	
		OR	
	c).	Enumerate the requirements of goo acoustical material.	6
	d)	Define thermal conductivity and therma resistance.	11

Q.4.	a)	Write various types of doors sketch any two.	6
------	----	--	---

b) Write various types of windows sketch any two.

OR

Plan and draw a detailed layout diagram for clinic in rural area.

- Q.5. a) What do you mean by energy efficient building.
  - b) Discuss one paint perspective. 6

OR

Write short notes on:

 $4 \times 3 = 12$ 

- i) Parallel and oblique perspective
- ii) Station point and vanishing paint
- iii) Picture plane
- iv) Measuring points

