Seat No:	Enrollment No:
	PARUL UNIVERSITY
	FACULTY OF ENGINEERING & TECHNOLOGY

Semester: 3 Date: 25-11-2019

Subject Code: 203104201/03104201 Time: 2:00pm to 4:30am

B.Tech. Summer 2019-20 Examination

Subject Name: Computer Aided Civil Engineering Drawing Total Marks: 60

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Inst	rn	ctia	ns:

- 1. All questions are compulsory.
- 2. Attempt Q 3 and Q.4 A in drawing sheet.
- 3. Figures to the right indicate full marks.
- 4. Make suitable assumptions wherever necessary.
- 5. Start new question on new page.

Q.1 Objective ty	e auestions	(Each	carries	one mark
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(15)

- 1. The minimum Plinth Height for a residential building should be _____ m
- 2. The recommended aspect of kitchen is_____
- 3. The laws framed by local authority and governing construction in any town or city are known as _____
- 4. The minimum thickness of external wall as per bye-laws is _____m
- 5. For vertical circulation ______ is provided in residential buildings.
- 6. External privacy can be achieved by providing
 - a. Compound wall b. Planting trees c. Screen wall d. all options
- 7. Horizontal circulation in buildings can be achieved by
 - a. Staircase b. Passage c. Lifts d. None of these
- 8. The ideal grouping is ______.
- a. Bedroom and Toilet, b. Drawing room and Kitchen,
 - c. Bedroom and Store, d. Bed
- d. Bedroom and Kitchen
- 9. The preferred height for parapet wall is
 - wall is
- o 7
 - a. 0.5 m b. 1.2 m
- c. 2.0 md. 3.0 m
- 10. Maximum size of the riser of step for residential building is
 - a. 19 cm
- b. 30 cm
- c. 25 cm
- d. 40 cm

- 11. Define FSI
- 12. What is full form of NBC
- 13. Draw the symbol for brick masonary
- 14. Which software is used for drafting and drawing in Civil Engineering?
- 15. Define plinth

Q.2 Answer the following questions. (Attempt any three)

(15)

- A) Enlist principles of planning and explain any one.
- B) List various types of bonds used in brick masonary walls, and explain anyone with the help of a neat sketch.
- C) What is bye-law? State principles underlying building bye-laws
- D) Define- Station point, Picture plane, Ground line, Horizon line, cone of vision

- Q.3 A) Draw ground floor plan of residential building in a plot area of 200 m2 for family of 4 persons with Kitchen, Drawing room, Bed room, Master bed room, Study room and Verandah. Assume FSI to be 1.2 and ground coverage as 0.6. Take suitable scale and show all calculations and dimensions.
 - B) For the ground floor plan drawn in Question 3. A, draw front elevation of the building only (08) showing ground floor. Take suitable scale and show all dimensions.

OR

- B) For the ground floor plan drawn in Question 3. A, draw sectional elevation of the building passing through staircase, showing only ground floor. Take suitable scale and show all dimensions.
- Q.4 A) Draw a line diagram for ground floor of a bank. Take size of units, according to general requirements of public building. (07)

OR

- A) Draw a line diagram for ground floor of Primary Health Centre for Village. Take size of units, according to general requirements of public building. (07)
- B) Discuss advantages and disadvantages of perspective drawing. Differentiate between one-point (08) and two-point perspective.