Enrollment No: Exam Seat No:

C. U. SHAH UNIVERSITY

Winter Examination-2020

Subject Name: Building Construction

Subject Code: 4TE03BCN1 Branch: B.Tech (Civil)

Semester: 3 Date: 09/03/2021 Time: 11:00 To 02:00 Marks: 70

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
- (2) Instructions written on main answer book are strictly to be obeyed.
- (3) Draw neat diagrams and figures (if necessary) at right places.
- (4) Assume suitable data if needed.

Q-1		Attempt the following questions:	(14)
	a)	The load of equipment and furniture kept in a building is termed as	1
	• \	(a) Dead load (b) Live load (c) Designed load (d) All are wrong	4
	b)	•	1
	,	(a) 10 cm (b) 20 cm (c) 35 cm (d) 50 cm	1
	c)	In multistoried government buildings, the floor height is usually restricted	1
		to (a) 2 materia (b) 2 4 materia (a) 3 4 materia (d) 4 2 materia	
	47	(a) 2 meters (b) 2.4 meters (c) 3.4 meters (d) 4.2 meters The least bearing conseity of soil is that of	1
	d)	The least bearing capacity of soil is that of (a) Hard rock's (b) Moist clays (c) Soft rocks (d) Laminated rocks	1
	e)	The number of steps in a flight should not be less than	1
	C)	(a) 12 (b) 3 (c) 2 (d) 5	1
	f)	The material, used in making of door frames are	1
	-)	(a) Wood (b) Steel (c) Aluminum (d) All the above	•
	g)	Brick floor are used in	1
	8/	(a) Workshops (b) Railway platform (c) Godowns (d) Verandahs	
	h)	D. P. C. may be	1
	·	(a) Vertical (b) Horizontal (c) Both (a) and (b) (d) None of the above	
	i)	The minimum depth of foundation below the ground level is	1
		(a) 60 cm (b) 90 cm (c) 120 cm (d) 150 cm	
	j)	While laying bricks in a wall, frog of the brick must be kept	1
		(a) Upward (b) Downward (c) Sideward (d) In any position	
	k)	1 11	1
		(a) Base surface (b) Preliminary surface	
		(c) Ground surface (d) Background surface	
	l)	The sum of tread and rise should lie between	1
	,	(a) 35 – 40 cm (b) 50 – 55 cm (c) 40 – 45 cm (d) 55 – 60 cm	4
	m)	For large spans the most suitable type of roof preferred is	1
	. `	(a) Flat roof (b) Slopy roof (c) Shelled roof (d) Domes	1
	n)	As compared to the floor area of a room, the glass in a window should not	1
		be less than	



Attempt any four questions from Q-2 to Q-8

Q-2		Attempt all questions	(14)
	A	Describe the construction features and suitability of pile foundation. Also discuss about the various types piles.	7
	В	Enumerate the various components of building and different types of	7
		loads acting on structure.	
Q-3		Attempt all questions	(14)
	A	Define shallow foundation and Deep foundations. Explain the necessity	7
	_	of shallow and deep foundations.	_
	В	Write the comparison between brick masonry and stone masonry.	7
Q-4		Attempt all questions	(14)
	A	Define the following terms also with a neat sketch.	7
		Header, Stretcher, Bond, Quion, Queen closer, King closer, Bevelled closer.	
	В	Enumerate the various types of flooring and explain any five types of	7
		flooring.	
Q-5		Attempt all questions	(14)
	A	Explain the various classifications of Stairs with a neat sketch.	7
	В	Define door and window and also explain the functions and location of doors and windows.	7
Q-6		Attempt all questions	(14)
Q-0	A	Describe in detail about the painting on different surfaces and explain	7
	1.	any three in detail.	,
	В	Write a short note on: Building frame.	7
Q-7		Attempt all questions	(14)
	A	Describe the method of damp proofing in building for the following.	7
		(i) Treatment to Foundation. (ii) Treatment to basement.	
		(iii) Treatment to floor.	
	В	Write short note on building maintenance.	7
Q-8		Attempt all questions	(14)
	A	Discuss in detail about the various types of flat terraced roofing.	7
	В	Define plastering. Write the objects and requirements of good plastering.	7

