Total No. of printed pages = 4

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BINA CHOWDHURY CENTRAL LIBRARY

(GIMT & GIPS)

2019

Azara, Hatkhowapara, Guwahati -781017 Guwahati -781017

B. Tech. 3rd Semester End-Term Examination

BUILDING CONSTRUCTION

(New Regulation)

Full Marks - 70

Time - Three hours

The figures in the margin indicate full marks for the questions.

Answer Question No. 1 and any four from the rest.

- Answer the following MCQs:
- $(10 \times 1 = 10)$
- (i) The floor of a building below the ground level is known as:
 - (a) Underground floor
 - (b) Basement floor
 - (c) Ground floor
 - (d) None of the above
- (ii) The distance between supports of a truss, beam is called:
 - (a) Horizontal distance
 - (b) Purlin
 - (c) Span
 - (d) Refter

[Turn over

(iii)	The	most eted for	comm	on t	ype of India is	deep	foundation
	(a)	Isolat	ed slop	ped fo	undati	on	
	(b)	Well 1	Founda	ation			
	(c)	Box C	aisson	ıs	3		
	(d)	Sprea	d foun	datio	n		
(iv)	The	size of	modu	lar br	rick is		
	(a)	20 cm	× 10	cm × 1	10 cm		
	(b)	19 cm	× 19	cm × 9	9 cm		
	(c)	19 cm	1 × 9 cm	m × 9	cm		
	(d)	20 cn	n × 10	cm ×	9 cm		
(v)	exit	t to th	ne oth	er pe	rson s	imulta	person and neously and e is called
		Swin					ng door
	(c)				1.09 (0.00)	Sliding	
(vi)	The	e uppe	r hor	izonta	al port	ion of	a step over cending and
	(a)	Land	ling		(b)	Tread	
	(c)	Rise			(d)	Platfor	m
(vii	ATT THE REAL PROPERTY.	e most		non r	oof cov	ering o	over a period
	(a)	Tha	tch		(b)	Slates	
	(c)	Tile	s		(d)	C.G.I.	Sheets
CE 1318	303			2			

- (viii) The electrically operated arrangement provided in a departmental store for transporting men and materials between two floors is called
 - (a) Escalator (b) Ramp

(c) Stairs

- (d) None of the above
- (ix) The temporary structure erected near the construction work of a masonary wall above 1.5 metre to carry out the further construction is known as

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(a) Scaffolding

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- Bamboo structure (b)
- Timber structure (c)
- (d) None of the above
- D.P.C. in a building is provided over (x)
 - Plinth Wall (a)
- Ventilator (b)

Door (c)

- (d) Window
- What do you mean by orientation of a building? responsible for Discuss the various factors orientation of a building. State the aspects that (3+7+5)govern the building bye-laws.
- Briefly describe the term foundation. Discuss 3. various functions of foundation. How failure of building foundation can be detected? Describe with a neat diagram (Plan and section) different components of a single circular well foundation for a (2+5+2+6)bridge.

Turn over

- 4. Classify stairs into different types and give simple sketch for each. Plan a dog-legged stair for a building with the following data: (5+10)
 - (a) Vertical distance between floors 3.60 metre
 - (b) Size of stair hall = 2.5×5.5 metre
- Define a floor. Draw section of a solid ground floor. Name different materials used for floor finish. Name the factors to be considered before selecting the materials for floor finish. Describe the procedure for construction of cement concrete floor in ground floor. (2+2+2+3+6)
- 6. What are the requirements of a good roof? Give the different forms of pitched roof with neat sketches. State the merits and demerits of flat roofs. Discuss the advantages of steel roof trusses over timber trusses.

 (3+3+3+6)
- 7. Draw the followings (any three): $(3 \times 5 = 15)$
 - (a) Section of slopped isolated footing with reinforcement
 - (b) Section of a combined footing joining two columns
 - (c) A wooden truss span 7 metre
 - (d) Draw plan of alternate courses of one Brick English Bond