Enrolment	No.

SARVAJANIK UNIVERSITY

TOTAL PARTY OF THE	S-202	4 Date: 15-04-24 Time: 01:30 PM to 04:30 PM Regular / Backlog Exam	
		Interior Design - SEMESTER II EXAMINATION	***************************************
	Code: BID11 Name: BUILD	1203 ING MATERIALS, SYSTEMS AND ENVIRONMENTAL STU	al Marks: 180 JDIES
Instruct	ious:		
2. Make		ons. Imptions wherever necessary. t indicate full marks.	
Q.1. (A)	Do as directe	ed	(20)
1	. In of the wall.	bond brick laid with its length parallel to the face or .	front or direction
2	. Temperatu (True or fal	ire stress is created because of increase or decrease of tise)	emperature.
3	. A three trad	ck window will give % opening.	
4	. An arch wit	th its centre above the springing line is known as	arch.
5	. A revolving	door has springs which help closing and opening of shutt	ters.(True or false)
6		um clear vertical distance between the tread and ove	rhead structure is
7	. A row of ar	ches is known as an arcade. (True or false)	
8		ble to install aluminum window frame during the proces stering. (True or False)	s of brick masonry
9	. In a sloping	groof the triangle window projecting out is called	window.
1	O. Truss trans	fers load by action.	
(B) Selec	ct the correct	answer	(20)
1. The r	minimum head	droom of a stair is	
a)	1.0 meters	b) 1.2 meters	
c)	3.0 meters	d) 2.0 meters	

2.	Because of transverse load	actions are created.				
	a) Axial tension	b) Axial & bending				
	c) Axial compression	d) Bending & shear.				
3.	3. An arch with center point on the springing line is known as					
	a) Venetian Arch	b) Segmental Arch				
	c) Horse shoe Arch	d) Semicircular Arch				
4.	1. Identify the type of stair in the image.					
	a) Half Turn Stairs	b) Bifurcated Stairs				
	c) Three quarter Turn Stairs	d) Spiral stairs				
5.	In the given list below which are a) Latitude c) Prevailing Winds	the factors affecting Climate? b) Ocean Currents d) All of Above				
6.	The portion of brick cut across t	he width in the half is called				
	a.) Half Split	b.) Half Closer				
	c.) Half Bat	d.) King Closer				
7.	Identify the given image.					
	a.) Mitred Closer	b.) King Closer				
	c.) Bevelled Closer	d.) Bevelled bat small				
8.	3. Axial strain is a ratio of change in length/					
	a) Original length b) Deformed length					
	c) Standard length	d) none of above				
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9. \	Weather:	shed are provided at _	levelin	the building.	
a) Sill Level		evel	b) Lintel level		
c) Plinth level		th level	d) Slab level		
10. lr				ndings is known as	· · · · · · · · · · · · · · · · · · ·
	a) Rise		b) Flight		
c) Soffit			d) None of these.		
Q2.	(A) Defi	ne/ Explain the follov	ving (Any FIVE)		(20)
	1.	Define Sheer stress.			
	2.	Explain purlins and ra	ifters in a roof.		
	3.	Define Intrados and I	Extrados in an Arch.		
	4.	What are tread, riser	s and a flight in a sta	air?	
	5.	Explain eaves and its	function in a roof.		
	6.	Define a Dome struct	ure.		
	7.	Explain deployable st	ructures.		
	(B). Ans	wer in Brief (Any FO	UR)		(20)
	1. 2.			sent in the soil for good	brick earth?
	3.	What are Flush doors	? Explain its benefit	5.	
	4. 5.	Explain the Importan Explain the character		e in buildings. mid Climate with sketcl	nes.
	6.	What are the conside	erations for stability	of an arch?	
Q3: s	Sketch a	nd Label the followin	g in detail (Any FI	VE)	(50)
	٠.	Plan and elevation of	one brick thick Flei	mish bond	
	2.	Timber Louvered win	dow		
	3.	Single joist timber flo	or		
	4.	Sketch A – Frame Roo	of		
	5.	Bifurcated stairs in pl	an and elevation.		
	6.	R.C.C. Boot lintel.			
	7.	Timber partition wall	s and its componen	ts.	

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Q4. Answer in detail with neat sketches. (Any two)

(50)

- 1. What are the considerations for designing comfortable stairs? Define and label with neat diagrams various components of a stair?
- 2. Explain Rubble and Ashlar stone masonry in detail with sketches.
- 3. Explain functioning of a Revolving door and its components with sketches.