ADAG GAMEME

USN		15ARC72			
	Seventh Semester B.Arch. Degree Examination, Aug	./Sept. 2020			
	Materials and Methods in Building Constru	iction – VII			
Tin	ne: 4 hrs.	Max. Marks: 100			
	Note: Answer any FIVE full questions, choosing ONE full question from	No.			
	Module-1				
1	List the properties and uses of the following materials.				
1	a) Plywood				
	b) Particle board				
	c) Block board				
	d) Wood wool.	(20 Marks)			
	OR				
2	Design a wardrobe of size 2.4m × 2.1m high with 600 deep and acco	mmodate dressing also			
_	as part of wardrobe.	minodate aresomb mos			
	i) Plan, section and elevation (Internal) to scale 1:20	(12 Marks)			
	ii) Any two details.	(08 Marks)			
	Module-2	A.			
3	Design a Kitchen of size 4m × 3m with height of 3m. Assuming a wi	indow of 1.2m wide on			
5	the 3m side wall. With a sill of 900mm. Draw the following:	*			
	i) The plan	(04 Marks)			
	ii) Elevation	(08 Marks)			
	iii) Section	(04 Marks)			
	iv) Detail.	(04 Marks)			
	OR				
4	Design an office space of 8m × 12m with 6 work stations and 3 cab				
	and other necessary furniture. Entrance from the shorter side. Draw th				
	a. Plan and furniture layout	(08 Marks)			
	b. Details of cabins with elevation and sectionc. Details of the partition.	(08 Marks) (04 Marks)			
	c. Petans of the partition.	(04 Marks)			
	Module-3				
5	A false ceiling to be designed for an office space of $5m \times 7m$. Choo	se the system ideal for			
	office space.				
	Detail the following: a) Reflected ceiling plan to scale (1:20)	(08 Marks)			
	b) Section and blown up section	(08 Marks)			
	c) Concealed light fixture detail.	(04 Marks)			
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6	OR Explain with sketches pre-stressing construction. Detail of the following	na :			
6	a) Prestressed Beam and slab connection	ng . (10 Marks)			
	b) prestressed Beam and to column connection.	(10 Marks)			

		Module-4	
7	a.	Explain when deep foundations are used.	(05 Marks) (15 Marks)
	b.	What are the types of mat foundation? Explain through sketches.	(13 Marks)
		OR	•••
8		List the advantages of the following: a) Timber piles	
		b) Precast concrete piles	
		c) C art Insitu – concrete piles.	(20 Marks)
		Module-5	
9		Write short notes on : a) CAD/CAM/Technology	(10 Marks)
		b) Prefabrication in India.	(10 Marks)
		OR	
10) a.		(06 Marks)
	b.	with sketches, explain the following:	(07 Marks)
		i) Bamboo Flooringii) Bamboo walls.	(07 Marks)
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