## PORQ GAMEME

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USN		15	SARC5.2
	]	Fifth Semester B.Arch. Degree Examination, Dec.2018/Jan.20	19
		Materials & Methods in Building Construction	
Tin	ne: í	3 hrs. Max. Max. Max. Max. Max. Max. Max. Max	arks: 100
		Note: Answer FIVE full questions, choosing one full question from each module	o
			<b></b>
1	a.	Module-1 Write the advantages and disadvantages of trusses and sketch the components of	f the truce
1	a.	write the advantages and disadvantages of trusses and sketch the components of	(10 Marks)
	b.	Sketch any 5 different types of truss and label the components.	(10 Marks)
		OR	
2		A mechanical workshop of size 15m×25m has to be covered by a tubular truss	with AC
-		sheet covering draw its plan, section and any two necessary details.	, with the
		• Plan	
		• Section	
		• Detail 1)	
		• Detail – 2	(20 Marks)
		Module-2	
3		A warehouse of size 30m×15m which has a clear height of 10 m has to be covered to the covered to	vered with
		pre-engineered structure provide the following details:	
	a. b.	Plan Section.	
	c.	MS sheet cladding detail.	
	d.	Butter detail at the roof edge.	(20 Marks)
4	2	OR What are large span roof structures, mention its advantages and disadvantages?	(10 Marks)
•	a. b.	Sketch the following: (i) Shell roof/Vaulted roof.	(10 Marks)
		(ii) Geodesic dome.	
		(iii) Space frame.	
	A	(iv) Tensile structure.	(10 Marks)
	G	Module-3	
5	***	Provide construction details for a geodesic dome structure,	
		(i) Plan (ii) Sectional elevation (iii) Joinery details.	(20 Marks)
		OR	
6		Explain the construction details involved in hyperbolic paraboloid shell struc	ctures and
•			(20 Marks)
7		Module-4  A Fullikition possible space of size 15 yr 25 yr has to be severed with tensile	, atm.ch
7		A Exhibition pavilion space of size 15m×25m has to be covered with tensile provide its	structure,
			(20 Marks)
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OR

A college gathering space of 10 m×15m is to be constructed with the space frame roof 8 covering draw its (i) Plan (ii) Sectional elevation (iii) Roof covering details.

(20 Marks)

Module-5

What are the different types of plastics used in construction industry? Mention its uses and 9 properties. (20 Marks)

Mention the different types of water proofing components available for construction. 10 a.

(10 Marks)

With the help of neat sketches, illustrate the method of water proofing for terrace garden.

(10 Marks)