					18ARC7.
		Seventh Semester B.Arch. De	gree Examina	tion June/July	2024
			Services –		2024
Tin	ne: 1	3 hrs.		Max	. Marks: 100
	Γ	Note: Answer any FIVE full questions,	choosing one full	question from each	module.
		М	odule-1		
1		Describe with appropriate sketches:			
	a.	Characteristics of sound			(12 Mark
	b.	Inverse square law.			(08 Mark
			OR		
2		Define the following:	<b>U</b> N		
-	a.	Pitch and sound intensity	and the second second		(06 Mark
	b.	Threshold of audibility and pain			(05 Mark
	c.	Acoustic anomalies in an auditorium su	upport with sketche	es.	(09 Mark
			odule-2		
3		Define the following:			
	a.	Speech Intelligibility			
	b.	Speech privacy and sound attenuation			
	C.	NRC value			
	d.	Membrane absorber			(20 Mark
	e.	Uses of STI practically.			(20 Mark
			OR		
4		Describe with sketches, the three types		als with sketches.	(20 Mark
			odule-3		
5		Trace the origin and history of Greek	, Roman theatres i	in terms of acoustic	
					(20 Mark
			OR		
6		List out the Auditorium specifications	s as mentioned in	IS code 2526-1963	
		and shape.			(20 Mark
			odule-4		
7	a.	Define sound transmission class.			(08 Mark
	b.	Define and explain mars law			(08 Mari
	C.	Define transmission loss.			(04 Mark

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(04 Marks)

## OR

8		Describe with sketches:	
	a.	Design principles of reduction of noise at source.	(10 Marks)
	b.	Design principles of reduction of noise by enclosures and barriers.	(10 Marks)
		<u>Module-5</u>	
9	a.	List out the industrial noises and their sources.	(06 Marks)
	b.	Sketch details of i) Composite wall ii) Floating floor.	(14 Marks)
		OR	
10	a.	Mention any one method of noise isolation in industries.	(04 Marks)

b. Acoustic interventions against urban noises in neighbourhoods (any two scenarios). (12 Marks)

c. Describe the various sources of urban noises.

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