		STRV School or	
CBCS SCHEME			
USI	N	Bangalore *	18ARC73
Seventh Semester B.Arch. Degree Examination, Jan./Feb. 2023			
Building Services – IV			
Time: 3 hrs. Max. Marks:100			
		Note: Answer any FIVE full questions, choosing ONE full question from each	module.
1	a. b.	and initiation.	(10 Marks) (10 Marks)
		OR	
2	a. b.	measures for the same. i) Focusing of sound ii) Flutter echo iii) Dead spots.	corrective (12 Marks) (08 Marks)
2		Module-2	
3	a. b.	a proven and and a second and a second and a second a second and a second a	' (08 Marks) reading of (12 Marks)
		OR OR	
4	a.	Suggest and explain suitable types of acoustic materials for the following spaces. i) Departmental stone ii) Lecture hall iii) Industrial building iv) Open office.	(12 Marks)
	b.		(08 Marks)
-		Module-3	
5	a.	Explain the principles of Greek theaters to achieve favorable acoustics. How a theaters different form Greek theaters.	are Roman (10 Marks)
	b.	Suggest strategies to achieve speech privacy in open office plans.	(10 Marks)
		OR	
6	a. b.	Explain considerations to arrive at volume and shape of an auditorium. What are the considerations to achieve favorable acoustic environment in	(10 Marks)
	0.	i) Home theaters ii) Recording studios.	(10 Marks)
		Module-4	
7	a.	A multistoried office space is located on a busy arterial road. What are the differe noises which need to be considered?	nt types of (12 Marks)
	b.	Explain Transmission Loss. Suggest methods to reduce noise at source.	(08 Marks)
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8	a.	A conference hall on the fourth floor of building requires noise control strategies appropriate detail for : i) Composite walls ii) Floating floors.	es. Suggest (10 Marks)
	b.	What are the methods to achieve vibration isolation for mechanical noise from v	
		and ceiling?	(10 Marks)
		Module-5	
9	a.	What are the methods to reduce noise in industries due to i) Friction ii) Turbulence.	(12 Marks)
	b.		(08 Marks)
		OR	(10 34 - 1)
10	a. b.	Explain the significance of enclosures and barriers to control noise. Suggest strategies at Town planning level and site level to mitigate noise.	(10 Marks) (10 Marks)
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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. 2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.