

Time: 3 hrs.

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Sixth Semester B.Arch. Degree Examination, June/July 2019 Building Services – IV

school of

LIERARY

Max. Marks:100

	Note: Answer any FIVE full questions.	
1	Explain the sound and distance inverse square law with a diagram and equation. (20	Marks)
2	Explain the behaviour of sound in an enclosed space, with a sketch. (20	Marks)
3	As an architect of a proposed auditorium, what would be the various considerations in with respect to acoustic treatment, availability, visibility and room geometry. (20)	volved Marks)
4	Write short notes on: a. Reverberation time b. Sound Absorption Coefficient b. Sound Masking c. Flutter Echo (20 M	Marks)
5	Explain the phenomenon of sound reflection. Explain the principle of cavity resonate sound absorbers. (20 N	ors, as M arks)
6	Explain Air borne and structure borne noise. Describe the different materials used for insulation in buildings with their application. (20 N	sound Aarks)
7	Explain the causes for environmental noise in urban areas with examples sugge architectural recommendations to overcome the noise. (20 M	st the Aarks)
8	Explain how a town/city needs to be planned to overcome the noise problems from and rapid industrialization. (20 M	traffic Iarks)