## 2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8=50, will be treated as malpractice. Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

## USN

## Sixth Semester B.Arch. Degree Examination, June/July 2015 **Building Services - IV**

Time: 3 hrs. Max. Marks: 100

Note: Answer any FIVE full questions, selecting THREE from Part – A and TWO from Part - B.

## PART - A

PART – A			
1	a. b. c. d.	1	(20 Marks)
2	а <i>.</i> b.	With a neat sketch explain how sound behaves in enclosed space. Explain the various space acoustic defects.	(10 Marks) (10 Marks)
3		What is reverberation? Explain its relevance in acoustics? Explain Sabire's equation.	(10 Marks) (10 Marks)
4	a. b. c. d.	Write short notes on: Sound absorption coefficient Helmholtz resonater Vibration isolation Space absorbers.	(20 Marks)
5	a. b. c. d.	As the architect of a proposed auditorium, what would be your recommend respect to: Room geometry Visibility Audibility Acoustic treatment.	(20 Marks)
PART B			
6		Discuss noise control measures applicable in outdoor urban noise control.	(20 Marks)
7	a. b. c. d.	Write short notes on: sound masking Transmission loss Noise reduction co-efficient (NRC) Floating floor construction.	(20 Marks)
8	a. b.	Explain the following: Noise control in office buildings. Control of noise generated by HVAC system.	(10 Marks) (10 Marks)

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