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09ARC6.3

Sixth Semester B.Arch. Degree Examination, Dec.2018/Jan.2019
Building Services - IV

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

- 1 a. What is audibility? Explain threshold of audibility and threshold of pain. (10 Marks)
b. Explain Sabine's reverberation formula and its limitations. (10 Marks)
- 2 Explain the behaviour of sound in an enclosed room. (20 Marks)
- 3 a. Explain Airborne noise and measures to control propagation of air-borne noise in buildings. (10 Marks)
b. Define and explain the sand levels, their measures and threshold levels. (10 Marks)
- 4 a. Explain application of inverse square law in acoustics. (10 Marks)
b. Explain basic attributes of sound. (10 Marks)
- 5 a. What is "Sound Masking"? Explain its relevance in acoustics. (10 Marks)
b. Explain measures to control impact noise in buildings. (10 Marks)
- 6 What is Environmental noise? Explain the remedial measures to avoid noise. (20 Marks)
- 7 a. Explain the methods of controlling noise in industrial buildings. (10 Marks)
b. How would you mitigate noise originating from HVAC systems in buildings? (10 Marks)
- 8 a. Explain construction of floating floors. (10 Marks)
b. Discuss ill effects of noise on occupants. (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.