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09ARC63

Sixth Semester B.Arch. Degree Examination, Dec.2019/Jan.2020
Building Services – IV

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

- 1 Write short notes with sketches to support your answers in necessary.
 - a. Directionality of sound
 - b. Equal loudness contour
 - c. Frequency of wavelength
 - d. Helmholtz resonators. (20 Marks)
- 2 Define Sabines equation and its relevance in acoustic design. (20 Marks)
- 3 Explain the behavior of sound in enclosed spaces and various sound phenomena involved. (20 Marks)
- 4 What are the acoustical requirements of auditorium design and explain each with sketches? (20 Marks)
- 5 What is Noise? Explain Noise with examples. (20 Marks)
- 6 What is masking of noise? How is it achieved in hospitals and airports? (20 Marks)
- 7 What are the problems of noise in residential apartments in the urban context and how is it controlled? (20 Marks)
- 8 How do you control vibrations in Industrial Buildings? (20 Marks)

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our answers, compulsorily draw diagonal cross lines on the remaining blank pages.
identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.