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**Sixth Semester B.Arch. Degree Examination, Dec.2015/Jan.2016**  
**Building Services – IV**

Time: 3 hrs.

Max. Marks:100

**Note: 1. Answer any FIVE full questions.**  
**2. Draw neat sketches wherever necessary.**

- 1 Describe with sketches at least three examples of “variable sound absorbers”. (20 Marks)
- 2 Differentiate between development of Greek and Roman theatres with sketches and examples. (20 Marks)
- 3 Draw a line diagram of “legitimate theatre” showing all the acoustical treatment in plan and section including balcony soffit, ceiling side walls and proscenium opening. (20 Marks)
- 4 Write short notes on:
  - a. Sound foci.
  - b. Speech articulation test.
  - c. Inverse square law.
  - d. Reverberation time. (20 Marks)
- 5 Draw plan and section of an acoustical door (sound proof) for a recording studio. (20 Marks)
- 6 Differentiate between Air-borne-noise and solid borne noise. (20 Marks)
- 7 What is environmental noise? Suggest various methods to contain the same. (20 Marks)
- 8 Explain with neat sketches:
  - a. Floating floors.
  - b. Machine isolation.
  - c. Staggered stud wall construction.
  - d. Transmission loss. (20 Marks)

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