(05 Marks)

(05 Marks)

(10 Marks)

## on companies contains to impulsarily draw diagonal cross lines on the remaining blank pages. 2. Any revealing of identification, appeal to evaluator and you equations of identification, appeal to

important Note

## Sixth Semester B.Arch. Degree Examination, Nov./Dec. 2016 **Building Services - IV**

Max. Marks:100 Time: 3 hrs.

Note: Answer FIVE full questions.

- List the Acoustical defects of Auditorium. Explain any four with sketches and remedial 1 measures.
- Explain the following technical terms and how they contribute for the Reverberation time 2 with examples.
  - i) Reflection
  - (10 Marks)
  - ii) Absorption. (10 Marks) List the factors influencing the absorption of energy explain b.
- (20 Marks) Explain any five building materials with acoustical properties. 3
- (10 Marks) Explain Sabine's formula. (10 Marks) 4 a.
  - Explain Eysing's formula. b.
- Write a shot note on: 5
  - Sound insulation
  - b. Sound masking
  - c. Threshold of pain audibility
  - (20 Marks) d. Inverse square law.
- What is noise? Explain. a.
  - Explain types of sources of noise. b.
  - Write about acceptable noise levels.
- (20 Marks) Explain Airborne noise and structure borne noise and controlling method. 7
- (20 Marks) Write about industrial noise and controlling methods with sketches. 8