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BAR-039

BACHELOR OF ARCHITECTURE (B.Arch.)

Term-End Examination

June, 2016

00240

**BAR-039 : ARCHITECTURAL SCIENCES AND
SERVICES – II
(ILLUMINATION AND ACOUSTICS)**

Time : 3 hours

Maximum Marks : 70

Note : Question no. 1 is compulsory. Attempt any five questions from the test.

1. Write short notes on the following : 5×2=10
- (a) Luminous Flux
 - (b) Illumination
 - (c) Daylight Factor
 - (d) Sound Pressure Level
 - (e) Sound Frequency
2. Elaborate on simulations of building morphology and systems of space and structure. 12

3. Explain the difference between echo, reverberation and resonance. 12
 4. What are the acoustical requirements of a room ? Discuss the selection of design reverberation time. 12
 5. How can you protect a building from external noises ? What is meant by Impact sound insulation ? 12
 6. Differentiate between Building Area method and Lumen method of calculation for artificial lighting design. 12
 7. Define Visual Field. Discuss the importance of daylighting and its prediction methods. 12
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