BAR-039

BACHELOR OF ARCHITECTURE (B.Arch.)

Term-End Examination June, 2017



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

Time: 3 hours Maximum Marks: 70

Note: Part A is compulsory. Attempt any five questions from Part B. Use of calculator is permitted.

PART A (Compulsory)

- 1. Write short notes on any **four** of the following: $4\times5=20$
 - (a) Initial Time Delay Gap
 - (b) Daylight Factor
 - (c) Glare Index
 - (d) NC Curves
 - (e) Threshold of Pain

PART B

$Attempt\ any\ \textbf{five}\ questions.$

2.	What is transmission loss of a partition? Discuss how material of a partition may be	
	important in this regard.	10
3.	Enlist various characteristics of sound. Explain any two of them in brief.	10
4.	Discuss how computers may aid us for improved planning of building acoustics and lighting.	10
5.	Discuss the need for artificial lighting. What do you understand by lighting levels? Write two considerations for fixing levels for street lighting.	10
6.	Discuss how human factors such as age and physical conditions may affect lighting requirements in and outside buildings.	10
7.	Briefly discuss a relationship between climate and available natural daylight at a place. Give an example of an Indian context.	10