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V Semester B.V.A. (Theory) Degree Examination, March/April - 2023

INTERIOR AND SPATIAL DESIGN

**Environmental Control
(CBCS Semester Scheme)**

Paper : Theory

Time : 3 Hours

Maximum Marks : 70

Instructions to Candidates:

All Sections are compulsory.

SECTION - A

Answer any FIVE of the following.

(5×5=25)

1. What is reverberation of sound ?
2. Define inverse square law, what is Sabine's theory and formula.
3. What is an echo? What is a sound shadow?
4. Explain sound pressure? Intensity and Loudness.
5. Explain the temperature of lights and colours. What are different units for measuring light intensity?
6. Explain in detail the artificial lighting and its design applications.

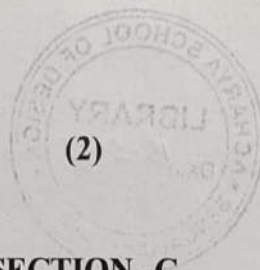
SECTION - B

Answer any THREE of the following.

(3×10=30)

1. Explain in detail with the help of sketches effects of good lighting . How to control Brightness, glare, contrast and diffusion of a space for natural lighting?
2. How to do sound masking in buildings mention some design measures to follow.
3. Explain in brief the phenomenon of human ear and hearing with illustrations/diagrams.
4. What are the different types of artificial lighting? How does the selection of lighting fixtures takes place with respect to the usability of space?

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SECTION - C

Answer any ONE of the following.

(1×15=15)

1. Explain in detail the lighting design and Principles undertaken for your design studio project with diagrams, sketches and graphs.
 2. Explain in detail the acoustical requirements for auditorium design.
 3. Explain architectural acoustics in detail and various measures used by designers for noise reduction.
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