

B.Arch. Eighth Semester (Old)
Architectural Illumination : 8 SA 7

P. Pages : 1

Time : Two Hours



AU - 3146

Max. Marks : 40

- Notes :
1. Answer **Four** question.
 2. Question No. **Seven** is compulsory.
 3. Diagrams and Chemical equations should be given wherever necessary.
 4. Use of slide rule logarithmic tables, Steam tables, Moller's Chart, Drawing instrument, Thermodynamic table for moist air, Psychrometric Charts and Refrigeration charts is permitted.
 5. I.S.I. Hand book for structural Steel section, I.S. Code 800/1962 or 1964, I.S. 456 (Revised) I.S. 875 may be consulted.
 6. Use of D.A. Laws "Pocket Book for Mechanical Engineers" is permitted.
 7. Use of pen Blue/Black ink/refill only for writing the answer book.

1. What are the Natural and Artificial sources of light? State their advantages and disadvantages? 10

OR

2. a) Explain with neat sketch cosine law? 10

- b) What is meant by Disability Glare?

3. a) Explain the term, Lumen, Lux and Candela. 10

- b) Describe briefly the Reflection and transmission of light.

OR

4. a) Explain under water light fixtures? How is it used? 10

- b) Explain cold cathode lamps & light emitting diodes.

5. a) What is suspended lighting? Explain with sketches the conditions in which they are used? 10

- b) Explain light reflection, refraction, transmission and other relevant phenomenon.

OR

6. Explain lighting design and method used for Art studio & chapel? 10

7. Describe with neat sketches **any three** of the following? 10

- a) Cold cathode lamp.

- b) Lighting system and lighting Equipment.

- c) Lumen method of calculation.

- d) Flood lighting for sport complex.

- e) Inverse square law.
