

Total No. of Questions :04]

SEAT No.

PA-10187

[6010]-57

[Total No. of Pages :2

B.E. (Electrical Engineering) (Insem)
ILLUMINATION ENGINEERING
(2019 Pattern) (Semester-VIII) (Elective-VI) (403151B)

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:

- 1) Answer Q1 or Q2, Q3 or Q4,
- 2) Neat diagrams must be drawn wherever necessary
- 3) Figures to the right indicate full marks.
- 4) Use of Calculator is allowed.
- 5) Assume suitable data, if necessary.

- Q1)** a) Explain the terms. [5]
- i) Visual perception
 - ii) Contrast
- b) Enlist the good and bad effects of lighting. [5]
- c) State the various methods of controlling natural light. [5]

OR

- Q2)** a) Explain optical system of human eye with suitable diagram. [5]
- b) Explain in brief quantification and measurement of light. [5]
- c) State the properties of light. [5]
- Q3)** a) What are different materials used in manufacturing lamps? Explain any two of them in brief. [5]
- b) With suitable diagram explain construction and working of sodium vapour lamp. [5]
- c) What is a reflector? State its necessity and advantages. [5]

OR

P.T.O.

- Q4)** a) Explain induction lamp operation and its application. [5]
- b) Explain with the help of a suitable diagram the gas discharge phenomena. [5]
- c) What are types of lighting fixtures according to installation types? Explain any two. [5]

