

50496



12. a) i) Explain in detail the principle of operation of fluorescent lamp. (8)
ii) Describe and prove laws of illumination. (8)
(OR)
- b) Two street lamps are 20m apart and are fitted with a 500 C.P. lamp at a height of 8m above the ground each. Calculate the illumination at a point under each lamp and midway between the lamps. (16)
13. a) i) Describe the construction and working principle of dielectric heating. (8)
ii) Explain the principle and working of welding transformer. (8)
(OR)
- b) Describe different types of arc welding with neat diagram. (16)
14. a) Explain the operation of solar cell using equivalent circuit and I-V characteristics. (16)
(OR)
- b) Discuss in detail about the performance of cylindrical and parabolic concentrating collector. (16)
15. a) Explain the construction and operation of VAWT with its advantages and disadvantages. (16)
(OR)
- b) Describe the functions of various blocks of a WECS with the help of block diagram. (16)