

VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, BURLA
MID-SEMESTER EXAMINATION, March-2016

Building Services-II

6th Semester (B.Architecture)

Time: 2.00 hours

Full marks: 20

Answer any four questions (Question No. 1 is compulsory)

1. (i) Why sine wave form is preferred over triangular or square wave form? (1X5)
(ii) What are the different materials used in insulation and cover of transformer?
(iii) Differentiate between yard and under water lighting.
(iv) What is bushing and windings?
(v) How does the size of transformer tank affect the construction?
2. (a) What are the various Lighting Quality Characteristics? What are the recommended Lighting levels for working areas? (2.5)
(b) Explain the different light fitting and light distribution. (2.5)
3. (a) What is the principle of working of a transformer? (2.5)
(b) Explain the working of distribution system? (2.5)
4. (a) Explain the construction of a single phase transformer. (2.5)
(b) Differentiate between Concentric and sandwiched windings? (2.5)
5. (a) Derive the Emf Equation. (2.5)
(b) What do you mean by Power Transmission scheme? (2.5)
6. (a) Write short notes on i) two phase three wire system ii) three phase four wire system? (2.5)
(b) What are the advantages and disadvantages of A.C and D.C transmission? (2.5)