

VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY , BURLA

REPEAT MID SEMESTER EXAMINATION MARCH 2016

Building services II

4th semester (B.Arch)

Time :2 hours

Full Marks : 20

Answer any four questions (Question no. 1 is Compulsory)

1. (i) What do you mean by Indian electricity Rules? (1X5)
(ii) Differentiate between Bushing and Winding?
(iii) What do you mean by Voltage and amperage?
(iv) What are Single phase and three phase connections?
(v) Differentiate between Neon Light and Rope light?
2. (a) What do you mean by level of illuminance and distribution of illuminance? (2.5)
(b) What are the different light fitting conditions for wall flood light, parabolic down light and parabolic spot light? (2.5)
3. (a) What is the major structure of Electric power system? Explain with block diagram. (2.5)
(b) What are the different parts of a distribution system? (2.5)
4. (a) Explain the principle of working of transformer? (2.5)
(b) What is a transformer at load condition? Explain with a phasor diagram. (2.5)
5. (a) Derive the equation for Electromotive force. (2.5)
(b) What do you mean by system of transmission? Explain. (2.5)
6. (a) Write short notes on (i) Single phase system two wire type (ii) Three wire type (2.5)
(b) What are the advantages and disadvantages of transmission and distribution of electric energy? (2.5)

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

Building Services-II

4th Semester (B.Architecture)

Time: 2.00 hours

Full marks: 20

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

1. (i) What do you mean by Poly phase? (1X5)
(ii) What are the different methods of lighting?
(iii) Differentiate between Concealed and flood lighting.
(iv) What is single phase and Three phase connections?
(v) Differentiate between HT and LT consumers?
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 are the major components of an electric power system (2.5)
(b) What is a distribution system? Explain. (2.5)
4. (a) What is a transformer? Explain the construction of a single phase transformer (2.5)
(b) What is the difference between transformer at no load and load condition? (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) Single phase system two wire type ii) three wire type (2.5)
(b) What are the advantages and disadvantages of A.C transmission? (2.5)

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