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2nd Sem / Electrical

Subject : Electrical Networks

Time : 3 Hrs. M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

Q.1 The unit of Inductance is_____

a) henry b) Ohm

c) Volt d) Ampere

Q.2 The frequency of DC is_____ H_2.

a) 50 b) 0

c) 100 d) 20

Q.3 The minimum value of Power factor is

a) 0 b) 1

c) 2 d) 3

Q.4 The Phase difference between voltage and current is_____ in pure inductive circuit

a) O^o b) 90^o

c) 45^o d) 180^o

Q.5 The unit of Power is_____

a) Watt b) Volt

c) Ampere d) Joule

Q.6 Voltage is measured by_____

a) Ammeter b) Voltmeter

c) Wattmeter d) Ohm meter

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. (6x1=6)

Q.7 Define maximum Power Transfer Theorem

Q.8 Fared is the unit of_____

Q.9 Define frequency.

Q.10 Define Active Network.

Q.11 Define angular velocity.

Q.12 Define unbalanced local.

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

Q.13 Explain Thevenin theorem.

Q.14 Explain generation of alternating current

Q.15 Explain about farm factor and peak-factor.

Q.16 Explain component method of addition of two alternating quantities

Q.17 Discuss causes of low power factor and improvement of power factor

Q.18 Explain star connection of three phase circuit

Q.19 Explain vector method of solving parallel A.C. Circuit.

Q.20 Explain the concept of transient and Harmonies in A.C. circuits.

Q.21 Explain concept of balanced and unbalanced load

Q.22 Explain the circuit with pure Inductance fed by pure A.C. Supply

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

Q.23 Define and Explain Newton Theorem

Q.24 Explain the resonance in parallel in A.C circuits

Q.25 Discuss the relation ships between line voltage, phase voltage, line current Phase current in star and Delta connections.