No. of Printed Pages : 4 220921
Roll No. .....

2nd Sem / Branch : Electrical
Subject:- Electrical Networks

Time : 3Hrs. M.M. : 60

SECTION-A

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

Q.1 The unit of Resistance is

a) Ohm b) Volts
c) Joule d) None

Q.2 The frequency of A.C in india is _____ Hz

a) 10 b) 50
c) 100 d) 25

Q.3 The maximum 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 resistive circuit its.

a) 0^0 b) 90^0
c) 180^0 d) 45^0

Q.5 The unit of Power factor is

a) Volts b) Watts
c) Joule d) None

Q.6 Power is measured by_____

a) Volt meter b) Wattmeter
c) Ammeter d) Energy meter

SECTION-B

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

Q.7 Henry is the unit of _____

Q.8 Define Time Period

Q.9 Define Peak factor

Q.10 Define Quality factor

Q.11 Define Linear Network

Q.12 Define Power factor

SECTION-C

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

Q.13 Define and Explain Super Position Theorem

Q.14 Explain generation of alternating voltage

Q.15 Define and explain R.M.S value of A.C

Q.16 Explain the pure capacitive circuit fed by pure A.C. Supply.

Q.17 Explain the concept of transent and harmonics in A.C circuits.

Q.18 Write down Relation between phase and line quantities in star and delta connection

Q.19 Compare sense and Parallel Resonance

Q.20 Explain Advantages of High power factor

Q.21 Explain parallelogram method of adding two alternating quantities.

Q.22 Explain concept of Truepower, apparent power and Reactive Power

SECTION-D

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

Q.23 Define and explain The venins Theorem

Q.24 Define and explain Resonance in series RLC circuit

Q.25 Explain principle of generation of 3-phase alternating emf.