

No. of Printed Pages : 4
Roll No.

180817

1st Year/ Computer Engg.
Subject:- Fundamental of
Electrical & Electronics Engineering

Time : 3Hrs.

M.M. : 60

SECTION-A

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

Q.1 In P-type semiconductor which type of impurity is added

- a) Pentavalent b) Trivalent
- c) None of these d) a and b both

Q.2 The unit of Inductance is

- a) Henry b) Ohm
- c) Farad d) none of these

Q.3 The frequency of Direct Current is

- a) 0 Hz b) 50 Hz
- c) 100 Hz d) 120 Hz

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Q.4 BJT Stands for

- a) Bijunction Transistor
- b) Bipolar Junction Transistor
- c) Binary Junction Transistor
- d) None of these

Q.5 In lead acid battery, positive plate is made up of

- a) PbSO_4 b) Pb
- c) PbO d) PbO_2

Q.6 The winding of a transformer is made up of

- a) Copper b) Aluminium
- c) Nickel d) Both a and b

SECTION-B

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

Q.7 MOSFET stands for _____.

Q.8 What is permeability?

Q.9 What is primary cell?

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Q.10 What is Ohm's Law?

Q.11 Draw the symbol of NPN Transistor

Q.12 Define Energy.

SECTION-C

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

Q.13 Differentiate between resistivity & conductivity.

Q.14 What are the different factors which affects the capacitance of a capacitor?

Q.15 What is the analogy between electric and magnetic circuits?

Q.16 Explain Kirchoff's Voltage Law.

Q.17 What is inductive and capacitive reactance?

Q.18 What is active & reactive power factor?

Q.19 What is Faraday's Law of electro-magnetic induction?

Q.20 What are the principles of self & mutual induction?

Q.21 What are the applications of solar cells?

Q.22 What are the charging methods used for a lead acid battery?

SECTION-D

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

Q.23 Explain Thevenin's & Norton's theorem in detail.

Q.24 Write a short note on series and parallel grouping of cells/batteries.

Q.25 Define r.m.s value, maximum value, form factor and peak factor of AC Circuits.