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B.TECH
PEN2B101

2nd Semester Regular Examination 2017-18
ELECTRICAL & ELECTRONICS ENGINEERING
BRANCH: Common

Time: 3 Hours Max Marks: 100

Answer Part-A which is compulsory and any four from Part-B.
The figures in the right hand margin indicate marks.

Part – A (Answer all the questions)

Q1

Answer the following questions: *Dash fill up type*

(2 x 10)

- Super position theorem is applicable to ----- networks.
- In Forward bias, the equivalent circuit of a practical Si diode is-----.
- The magnetizing force required to neutralize the magnetism is called the ----- force
- In a network having linear resistors and ideal voltage sources, values of all resistors are doubled. Then the voltage across each resistor will be-----
- For a series R-L circuit $i(t) = \sqrt{2} \sin(\omega t - 45^\circ)$. If $\omega L = 1\Omega$, the value of R is -----
- For a series R-C circuit the power factor corresponding to maximum power-----
- Two meters X and Y require 40mA & 50mA respectively to give full scale deflection, then ----- meter is more sensitive.
- The relationship between I_{CO} and I_{CEO} is -----.
- The reduced form of Boolean expression $A[B + C(AB + AC)]$ is -----
- A P-type semiconductor is formed by doping ----- atom with Si atom.

Q2

Answer the following questions: *Short answer type*

(2 x 10)

- How many 200W and 220V incandescent lamps connected in series would consume the same total power as a single 100W and 220V incandescent lamp?
- The voltage phasor of a circuit is $10\angle 15^\circ V$ and current phasor is $2\angle -45^\circ A$. calculate active and reactive powers in the circuit.
- State De Morgan's theorem.
- What are the different method of measuring power in three-phase circuit? Which is mostly used among them and why?
- A moving coil of a meter has 100 turns and a length and depth of 10mm and 20mm respectively. It is positioned in a uniform radial flux density of 200mT. the coil carries a current of 50mA. Calculate the torque on the coil.
- Define the term thermal runaway in case of transistor and how it can be

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