

First/Second Semester B.E. Degree Examination, June / July 2014
Basic Electrical Engineering

Times: 3 hrs.

Max. Marks: 100

Note: 1. Answer any **FIVE** full questions, choosing at least two from each part.

1. Answer only 10 of the 12 given questions, choosing in any order you like.
2. Answer all objective type questions only on OMR sheet page 5 of the answer booklet.
3. Answer to objective type questions on sheets other than OMR will not be valued.

PART - A

I a. Choose the correct answers for the following : (04 Marks)

- The resistance of a conductor is directly proportional to its _____ and inversely proportional to its _____.

A) Length & Area	B) Area & Length
C) Length & Current	D) Length & Voltage
- When the conductor moves perpendicular to the lines of flux, the emf induced is _____.

A) Minimum	B) Maximum	C) Zero	D) None of these
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- The mutual inductance between two coils of self inductance 0.8 H and 0.2 H, have a co-efficient of coupling 0.9 is _____.

A) 0.36 H	B) 0.4 H	C) 0.16 H	D) 0.144 H
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- An electric heater is rated to 2 kW, 200 V. The resistance of the heater coil is _____.

A) 10 Ω	B) 0.1 Ω	C) 20 Ω	D) 200 Ω
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b. Show that the equivalent resistance of two resistors connected in parallel is the ratio of the product of these two resistances divided by the sum of those two resistance values. (04 Marks)

c. Derive an expression for dynamically induced emf. (06 Marks)

d. Two coils having 1000 turns and 1600 turns respectively are placed close to each other such that 60% of the flux produced by one coil, If a current of 10 A, flowing in the first coil, produces a flux of 0.5 mwb. Find the inductance of the second coil. (06 Marks)

II a. Choose the correct answers for the following : (04 Marks)

- An alternating current is given by $i = 14.14 \sin\left(\omega t + \frac{\pi}{6}\right)$ has an rms value of _____ amperes.

A) 10 A	B) 14.14	C) 20 A	D) 0.707
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- In an a.c circuit, the ratio of kW/KVA represents _____.

A) Power factor	B) Load factor	C) Form factor	D) Peak factor
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- A current drawn by a capacitor of 20 μ F is 1.382 A from a 220 V A.C. supply. The supply frequency is _____.

A) 25 Hz	B) 60 Hz	C) 50 Hz	D) 40 Hz
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- The unit of apparent power is _____.

A) kW	B) KVAR	C) KVA	D) Joules
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b. Define: (i) Instantaneous value (ii) Amplitude (iii) Cycle (iv) Period with respect to sinusoidally varying quantities. (04 Marks)

c. Two impedances $(150 - j157) \Omega$ and $(100 + j110) \Omega$ are connected in parallel across 200 V, 50 Hz supply. Find branch currents, total current and total power consumed in the circuit. Draw the phasor diagram. (06 Marks)

d. Show that the power consumed in an R-C series circuit is $V^2 \cos \phi$. Draw the waveform for voltage, current and power. (06 Marks)

2014 Question Paper N2 Electric Engineering

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