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1. The conjugate of the complex quantity $(a+j b)$ will be
a) $-\mathrm{a}-\mathrm{jb}$
b) $-a+j b$
c) $\mathrm{A}-\mathrm{jb}$
d) Ja-b

Ans: (c)
2. Mass in the MKS unit system is analogous to
a) Resistance
b) Voltage
c) Inductance
d) Capacitance

Ans: (d)
3.A damped oscillation has the equation $I=50 e^{-10 t} \sin 628 \mathrm{t}$. What will be the frequency of a oscillation?
a) 50 Hz
b) 75 Hz
c) 100 Hz
d) 60 Hz

Ans: (c)
4. In a loss-free R-L-C circuit the transient current is
a) Sinusoidal
b) Oscillating
c) None-oscillating
d) Square wave

Ans: (a)
5. A 0.5 meter long conductor carrying a current of 2 amperes is placed in a magnetic field having the flux density of $0.05 \mathrm{wb} / \mathrm{m}^{2}$. What will be the amount of force experienced by the conductor?
a) 1 New
b) 2 New
c) 0.05 New
d) 0.5 New

Ans: (c)
6. Two parallel conductors carry the same current in the same direction. What kind of mutual force they will experience?
a) Repulsion
b) Attraction
c) Zero
d) Either (a) or (b)

Ans: (b)
7. Which of the following statement is correct?
a) The flow of current in the electric circuit involves discontinuous expenditure of energy.
b) The flow of current in the electric circuit requires energy for creating the current but not to maintain it.
c) In the magnetic circuit energy is needed continuously to maintain the flux.
d) In the magnetic circuit energy is needed for creating the flux initially but not to maintain it.

## Ans: (c)

8. If a coil has a resistance of 10 ohms and an inductance of 1 H , what will be the value of current 0.1 second after switching on a 500 V d.c. supply?
a) 6.32 A
b) 3.16 A
c) 3.7 A
d) 4.0 A

Ans: (b)
9. The r.m.s. value of an alternating current is given by steady (d.c) current which when flowing through a given circuit for given time produces
a) The same heat as produced by a.c. when flowing through the same circuit
b) The less heat than produced by a.c. when flowing through the same circuit
c) The more heat than produced by a.c. when flowing through the same circuit
d) 14.4 calories

## Ans: (a)

10.In case of an unsymmetrical alternating current the average value must always be taken over
a) The half cycle
b) The whole cycle
c) Unsymmetrical part of the waveform
d) The quarter cycle

Ans: (b)

