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18. The rms value of current (I_{rms}) is
a) $b/2$ b) $2I_0$ c) ω d) $2I_0$
19. In a purely inductive circuit the current
a) is in phase with the voltage b) is out of phase with the voltage c) leads the voltage by 90° d) lags behind the voltage by 90°
20. A lamp is connected in a series with a capacitor and an ac source, what happens if the capacity of the capacitor is reduced?
a) the lamp shines more brightly b) the lamp shines less brightly c) there is no change in the brightness of the lamp d) brightness may increase or decrease depending on the frequency of ac
21. A transformer is a device which converts
a) low voltage low current into high voltage high current b) high voltage low current into low voltage high current c) high voltage high current into low voltage low current d) electric power into mechanical power
22. The resonant frequency of an LC circuit is
a) $1/2\pi LC$ b) $12\pi LC$ c) $12\pi L/C$ d) $12\pi C/L$
23. If the conductance and capacitance are both doubled in LCR circuit, the resonant frequency of the circuit will
a) decrease to one half the original value b) decrease to one-fourth the original value c) increase to twice the original value d) decrease to twice the original value
24. The power factor in an LCR circuit at resonance is
a) zero b) 1 c) 0.8 d) $1/2$
25. The power factor in a circuit is unity. Then the impedance of the circuit is
a) inductive b) capacitive c) partially inductive and partially conductive d) resistive
26. One complete set of negative and positive values of alternating quantities is called
a) time period b) amplitude c) frequency d) cycle
27. The instantaneous value of an ac is given by $i = 5\sin(\omega t + \phi)$. The rms value of current is
a) SA b) $2 \times SA$ c) $S/2A$ d) 2.5A
28. Inductive reactance of a coil expressed as
a) Ampere b) ohm c) volt d) weber
29. The average value of alternating current over a complete cycle is
a) zero b) 1 rms c) $i/2$ d) $i/2$
30. A induction may store energy in
a) Its electric field b) Its coils c) Its magnetic field d) Both electric and magnetic fields
31. Two different coils have self inductance 8mH and 2mH. The current in both coils are increased at same constant rate. The ratio of the induced emfs in the coil is
a) 4:1 b) 1:4 c) 1:2 d) 2:1
32. A coil of resistance 5 Ω and inductance 4H is connected to a 10V battery. The energy stored in the coil
a) 0.8J b) 8J c) 16J d) 4J
33. Two coils of self inductance L_1 and L_2 are placed close together so that effective flux in one coil is completely linked with the other. If m is the mutual inductance between them, then
a) $M = L_1 L_2$ b) $L_1 L_2$ c) $M = (L_1 + L_2)/2$ d) $M = L_1 L_2$
34. The instrument which works on the principle of mutual induction is
a) galvanometer b) ammeter c) potentiometer d) transformer
35. What is the self inductance of a coil in which an induced emf of 2V is set up when the current is charged at the rate of 4AS⁻¹
a) 0.5mH b) 0.05H c) 2H d) 0.5H
36. Lenz's Law is a consequence of law of conservation of
a) energy only b) charge only c) momentum only d) energy and momentum

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