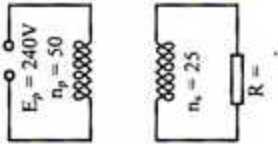


Chapter-12: Magnetic Effect of Current

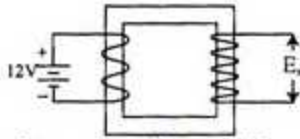
1.



How much ampere of electricity will flow through the load (R) of the transformer? [All Board-18]

- (a) 12 (b) 24
(c) 48 (d) 120

2.



In the above figure $n_p = 10$, $n_s = 50$.
What is the value of E_s ? [D.B.-17]

- (a) 0 volt (b) 12 volt
(c) 50 volt (d) 60 volt

3.

What is called the rectangular coil of wire on the soft sheet of iron in generator? [R.B.-17]

- (a) Slip ring (b) Armature
(c) Solenoid (d) commutator

4.

The number of turns of primary and secondary coil of a transformer are 10 and 75 respectively. If the current of primary coil is 5A then what will be the current of secondary coil in the ampere? [D.J.B.-17]

- (a) 0.67 (b) 0.69
(c) 0.73 (d) 37.5

5.

The lines of force of cylindrical shaped coil wire is similar to — [C.B.-17]

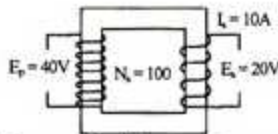
- (a) U shape magnet (b) ceramic magnet
(c) bar magnet (d) horse leg shape magnet

6.

Which relation is correct in transformers? [C.B.-17]

- (a) $E_p n_p = E_s n_s$ (b) $E_s I_p = I_p I_s$
(c) $I_p n_s = I_s n_p$ (d) $E_p n_s = E_s n_p$

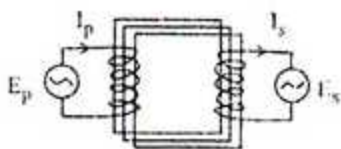
7.



If the flow of current of secondary coil is made 3 times, what will be the change of the number of turns of primary coil? [S.B.-17]

- (a) Half (b) 2 times
(c) 3 times (d) 6 times

8.



$E_p = 220$ V
 $I_p = 10$ V
 $E_s = 22$ V
 $I_s = ?$ [B. B. 2017]

- (a) 100 A (b) 10 A
(c) 1 A (d) 0.1 A

9.

Which one is based on the principle of electromagnetic induction? [B.B.-17]

- (a) Electric motor (b) Transformer
(c) Generator (d) Amplifier

10.

What type of change in power is marked in transformer? [R.B.-16]

- (a) Increase (b) Decrease
(c) Remain unchanged (d) Decrease abnormally

11. What is used in electric motor to keep the coil rotating? [R.B.-16]

- (a) Commutator (b) Brush
(c) Armature (d) Slip rings

12. Which of the following does use the mutual induction in its mode of function? [D.J.B.-16]

- (a) Transistor (b) Dynamo
(c) Amplifier (d) Transformer

13. Which one of the following relationship is correct in case of a transformer? [D.J.B.-16]

- (a) $E_p I_p = E_s I_s$ (b) $E_p n_p = E_s n_s$
(c) $\frac{E_p}{E_s} = \frac{I_p}{I_s}$ (d) $\frac{I_p}{I_s} = \frac{n_p}{n_s}$

14. No. of turn of primary and secondary of a transformer are 36 and 180 respectively. If the flow of current through primary coil is 10A, then what will be the flow through secondary coil? [C.B.-16]

- (a) 0.05A (b) 0.02A
(c) 0.5A (d) 2A

15. Transformer works following which process? [C.B. 2016]

- (a) Electric induction
(b) Thermal effect of electricity
(c) Magnetic effect of electricity
(d) Electromagnetic induction

16. In an electric motor, how can the intensity of magnetic field be increased? [Ctg.B.-16]

- (a) By increasing the number of turn of the coil
(b) By decreasing the flow of current
(c) By decreasing the length and breadth of the coil
(d) By using the magnet of less power

17. Flow of current through primary and secondary coil is 10A and 2A respectively. If the voltage in primary coil is 200V, then what is the amount of voltage in secondary coil? [Ctg.B.-16]

- (a) 40V (b) 100V
(c) 400V (d) 1000V

18. Intensity of magnetic field of a solenoid depends on — [R.B.-17]

- i. electric current
ii. the no. of turns of solenoid
iii. The direction of electric current

Which one is correct?

- (a) i and ii (b) i and iii
(c) ii and iii (d) i, ii and iii

19. Induced voltage or induced current can be increased in the following way — [Ctg.B.-17]

- i. Increasing the number of coil
ii. Moving the magnet or the coil slowly towards or away from electric circuit
iii. Decreasing the polar power of magnet

Which one of the following is correct?

- (a) i and ii (b) ii and iii
(c) i and iii (d) i, ii and iii

20. In a solenoid, change the direction of electric current in opposite direction — [D.B.-16]

- i. the poles are changed
ii. the direction of lines of forces will be opposite
iii. the iron rod lose its magnetism

Which one is correct?

- (a) i and ii (b) i and iii
(c) ii and iii (d) i, ii and iii

21. The strengthens of magnet can be increased — [J.B.-16]

- i. by increasing the flow of current
ii. by increasing the number of coil
iii. by increasing the length and breadth of the coil

Which one of the following is correct?

- (a) i & ii (b) i & iii
(c) ii & iii (d) i, ii & iii