

1. A resistance of 10 ohm is connected across a supply of 200V. If resistance R is now connected in parallel with a 10 ohm resistance, the current drawn from the supply gets doubled. The value of unknown resistance R is

- (a) 5 ohm
- (b) 20 ohm
- (c) 10 ohm
- (d) 15 ohm

Ans : c

2. Kirchoff's first law is also called as

- (a) voltage law
- (b) Current law
- (c) Mesh Current law
- (d) All the above

Ans : b

3. Find the total resistance when four 3 Ohm resistance are connected in series

- (a) 3 ohm
- (b) 12 ohm
- (c) 14 ohm
- (d) 8 ohm

Ans : b

4. The practical unit of power is

- (a) Joule
- (b) Ampere
- (c) Watt
- (d) Weber

Ans : c

5. Form factor of a sine wave is

- (a) 1.414
- (b) 1
- (c) 0
- (d) 1.11

Ans : d

6. The unit of resistance is

- (a) Mho
- (b) ohm-m
- (c) Ohms
- (d) Amps

Ans :c

7. Unit of impedance is

- (a) Ampere
- (b) Volt
- (c) Ohm
- (d) mho

Ans : c

8. The close path of the flux around any current carrying circuit is referred as Circuit.

- (a) Magnetic
- (b) Electric
- (c) Electromagnetic
- (d) None of these

Ans : a

9. The current flowing in an electrical circuit is due to the existence of

- (a) mmf
- (b) emf
- (c) Resistance
- (d) Reluctance

Ans : b

10. The magnetic flux flow through a magnetic circuit is due to

- (a) mmf
- (b) emf
- (c) Resistance
- (d) Reluctance

Ans : a

11. The on-line UPS is also called as

- a. Stand-by UPS
- b. Line Interactive UPS
- c. Off line UPS
- d. Current line UPS

Ans. b

12. _____ is used to convert alternating current to direct current.

- a. Transformer
- b. Diode
- c. Resistor
- d. Transistor

Ans. b

13. The supply voltage varies sinusoid ally and has a frequency _____ Hz.

- a. 60
- b. 50
- c. 20
- d. 10

Ans. b

14. Expression for magneto-motive force is

- (a) N/I
- (b) $1/NI$
- (c) I/N
- (d) IN

Ans : d

15. Unit of mmf is

- (a) Ampere /Volt
- (b) Ampere- turns
- (c) Volt
- (d) Volt/Ampere

Ans : b

16. Magnetic field strength is equal to

- (a) mmf. L
- (b) L/ mmf
- (c) mmf/ L
- (d) $1/\text{mmf.L}$

Ans : c

17. Peak inverse voltage of bridge rectifier is as that of centre-tap circuit.

- a. Same
- b. Twice
- c. Half
- d. Four times

Ans. c

18. Peak Resistance of the diode is increased when

- a. Forward biased
- b. Reverse biased
- c. Both forward and reverse biased
- d. Either a or b

Ans. b

19. The number of lines of force passing through the secondary coil S when unit current changes in the primary coil P are called

- (a) Self inductance
- (b) Mutual inductance
- (c) Self induction
- (d) Mutual induction

Ans : c

20. Unit of flux

- (a) Amp- turns
- (b) Weber
- (c) Volts
- (d) Amps

Ans : b