

RRB Junior Engineer (Electrical) Model Question Papers

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. Kirchhoff'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

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Ans : b