

1. What is the reciprocal of conductance?
 - a. Capacitance
 - b. Resistance
 - c. Inductance
 - d. Impedance
2. Resistance of metal ----- with temperature
 - a. Increase
 - b. Decrease
 - c. Will not change
 - d. First decrease then increase
3. What is the equivalent resistance, if three resistances 2, 5 and 10 Ohms are connected in parallel?
 - a. 1.25
 - b. 2.50
 - c. 6.55
 - d. 8.50
4. When two non-identical resistors are connected in series, both will have same
 - a. Voltage drop
 - b. Power drop
 - c. Current
 - d. All of the above
5. An ideal closed switch will have
 - a. Infinite resistance
 - b. Zero resistance
 - c. Average of the input and output resistances
 - d. Cannot say
6. One liter of water boils in an electric kettle in twenty minutes. If this has to be done in ten minutes, the length of the resistance wire has to be
 - a. Increased
 - b. Decreased
 - c. Not possible by both of the above
7. When the load is switched off, sparking is very prominent in a circuit with high
 - a. Resistance
 - b. Capacitance
 - c. Inductance
8. Ohm's law is not applicable to
 - a. High current circuits
 - b. High voltage circuits

- c. Low resistance circuits
 - d. Semiconductors
9. Tesla is the unit of
- a. Field intensity
 - b. Flux density
 - c. Permeability
 - d. Inductance
10. Fleming's left hand thumb rule is applicable to
- a. Motor
 - b. Generator
 - c. Transformer
 - d. All of the above
11. Paramagnetic materials have permeability
- a. Slightly above one
 - b. Slightly below one
 - c. Zero
 - d. Infinity
12. In which of the following circuit elements stores electric energy?
- a. Capacitance
 - b. Resistance
 - c. Inductance
 - d. All of the above
13. Storage battery used in a substation for back up supply is
- a. Nickel –cadmium
 - b. Ion-Polymer
 - c. Lead Acid
 - d. Zinc-Carbon
14. Capacity of the battery is specified by
- a. Voltage
 - b. Ampere hour
 - c. Current
 - d. None of the above
15. Supply with 50Hz means, there will be 50 cycles per
- a. Hour
 - b. Minute
 - c. Second
 - d. None of the above
16. In the supply of 230 V, the voltage is
- a. r.m.s value
 - b. peak value
 - c. average value
 - d. mean value

17. For an inductive load, best place to install a capacitor is
 - a. Close to the load
 - b. Away from the load
 - c. Any where
 - d. Across the load
18. When the inductance in the circuit increases, the power factor
 - a. Increases
 - b. Decreases
 - c. Will not change
19. Core lamination is
 - a. Silicon steel
 - b. Stainless steel
 - c. High carbon steel
 - d. Permanent magnet
20. Core is laminated to reduce
 - a. Electric loss
 - b. Magnetic loss
 - c. Copper loss
 - d. Size
21. Number of brushes in lap winding is
 - a. Same as the number of poles
 - b. Half the number of poles
 - c. Double the number of poles
 - d. Not dependent on the number of poles
22. In a four pole D.C. Series motor,
 - a. All are north poles
 - b. All are south poles
 - c. Two are south and two are north poles
 - d. Poles are not important
23. Brushes of the motor is made of
 - a. Copper
 - b. Aluminium
 - c. Silicone steel
 - d. Carbon
24. Which of the following motor has a high no load speed?
 - a. D.C. Series motor
 - b. D.C. Parallel motor
 - c. Cumulative compound motor
 - d. Differential compound motor
25. Starters are used in the motor
 - a. To reduce the starting torque
 - b. To increase starting torque

- c. To increase starting current
 - d. To reduce starting current
26. When two D.C motors are connected in parallel the speed will be
- a. More
 - b. Less
 - c. Infinity
 - d. Same
27. Fault in a cable is usually located using
- a. Resistance
 - b. Capacitance
 - c. Inductance
 - d. Frequency response
28. When the length of the cable is doubled, the capacitance will
- a. Double
 - b. Half
 - c. One-fourth
 - d. No change
29. Solder is an alloy of
- a. Copper & Zinc
 - b. Aluminium & Zinc
 - c. Tin & Lead
 - d. Copper & Silver
30. Capacitor consists of
- a. Two conductors separated by insulator
 - b. Two conductors with dielectric in between
 - c. Two insulators separated by conductor
 - d. Two insulators separated by dielectric
31. Which of the following is an integrating meter?
- a. Wattmeter
 - b. Watt-hour meter
 - c. Ammeter
 - d. Voltmeter
32. Moving iron meter can be used for the measurement of
- a. A.C only
 - b. D.C only
 - c. Both A.C & D.C
33. The operating voltage of Megger is about
- a. 1 V
 - b. 10V
 - c. 50 V
 - d. 100 V
34. Instrument transformers are:

- a. Potential transformers
 - b. Current transformers
 - c. Both a & b
 - d. None
35. Conductors connected to the consumer terminal in a distribution system is called:
- a. Service mains
 - b. Distributor
 - c. Feeder
 - d. Transmitter
36. Upper limit of the underground cable is:
- a. 11 kV
 - b. 33 kV
 - c. 66 kV
 - d. 400 kV
37. A feeder in an electrical power system feeds power to
- a. Generating stations
 - b. Sub stations
 - c. Distributors
 - d. Power mains
38. A 3 Phase four wire system is used to
- a. Secondary distribution
 - b. Primary distribution
 - c. Primary transmission
 - d. Secondary transmission
39. Load factor of a power station is given by
- a. Average load/ Maximum demand
 - b. Maximum demand/ Average load
 - c. Average load/ Minimum demand
 - d. Minimum demand/ Average load
40. Which of the following is not a renewable energy?
- a. Wind
 - b. Solar
 - c. Tide
 - d. Nuclear
41. Which among the following heating methods has maximum power factor?
- a. Arc heating
 - b. Induction heating
 - c. Microwave heating
 - d. Resistance heating
42. In an amplifier, negative feedback
- a. Reduces gain
 - b. Increases gain

- c. Increases noise
 - d. None of the above
43. Material with lot of free electrons are called
- a. Conductor
 - b. Insulator
 - c. Dielectric
 - d. Semiconductor
44. Unit of electric charge is
- a. Volt
 - b. Ampere
 - c. Coulomb
 - d. Henry
45. When the frequency of supply is increased, the impedance of the RC circuit
- a. Increases
 - b. Decreases
 - c. Will not change
 - d. None of the above
46. An RC series circuit will act as
- a. Low pass filter
 - b. High pass filter
 - c. Band pass filter
 - d. All of the above
47. If 60W bulb and 25W are connected in series,
- a. 60W will be brighter
 - b. 25W will be brighter
 - c. Both will be equally brighter
 - d. Both will not glow
48. In a three colour coded resistor, if the colors are red, red & yellow, the value of resistance is
- a. 22k
 - b. 220k
 - c. 22M
 - d. 220M
49. In LED bulb, source of light is
- a. Semiconductor
 - b. Resistive wire
 - c. Vacuum tube
 - d. None of the above
50. BLDC motor has
- a. No commutator
 - b. Electronic commutator
 - c. Conventional commutator
 - d. Both b & c

MFCP - Technical Assistant (Electrical)-Key

1	B
2	A
3	A
4	C
5	B
6	B
7	C
8	D
9	B
10	A
11	A
12	C
13	C
14	B
15	C
16	A
17	D
18	B
19	A
20	B
21	A
22	C
23	D
24	A
25	D
26	D
27	B
28	A
29	C
30	B
31	B
32	C
33	D

34	C
35	A
36	C
37	C
38	A
39	A
40	D
41	D
42	A
43	A
44	C
45	B
46	B
47	B
48	B
49	A
50	B