

46. If the no. of turns of a coil is increased, its inductance is \_\_\_\_\_.

- a) Increased
- b) Decreased
- c) Same
- d) None of these

47. The basic requirement for inducing emf in a coil is that \_\_\_\_\_.

- a) Closed loop coil
- b) Magnetic flux should link the coil
- c) Change in magnetic flux
- d) All of these

48. The induced emf in a coil is \_\_\_\_\_ with rate of change of magnetic flux.

- a) Independent
- b) Directly proportional
- c) Inversely proportional
- d) None of these

49. A capacitor consists of \_\_\_\_\_
- a) Two conductors separated by a dielectric
  - b) Two insulators separated by a conductor
  - c) One conducting plate and another insulating plate
  - d) None of these
50. What is the precaution to be taken before removing the capacitor from the motor for testing?
- a) Checking the polarity of the capacitor
  - b) Note down the capacitor rating
  - c) Fully discharging the capacitor
  - d) None of these
51. One farad is equal to \_\_\_\_\_
- a) 1 Volt/Coulomb
  - b) 1 Coulomb/Volt
  - c) 1 Joule/Volt
  - d) All of these
52. Which electrical device is used to minimize the sparking between two conductors?
- a) Diode
  - b) Inductor
  - c) Resistor
  - d) Capacitor
53. Capacitor should be discharged through a \_\_\_\_\_.
- a) Resistor
  - b) Inductor
  - c) Transistor
  - d) None of these
54. What happens if a dielectric material is placed in an electric field?
- a) Field strength is increased
  - b) Field strength is decreased
  - c) Field strength remains the same
  - d) None of these
55. The capacitance of a capacitor can be increased by \_\_\_\_\_.
- a) Increasing the area of the plates
  - b) Decreasing the distance between two plates
  - c) Either
  - d) None of these
56. The equation of series capacitor is \_\_\_\_\_.
- a)  $C = C_1 + C_2$
  - b)  $C = \frac{1}{C_1} + \frac{1}{C_2}$
  - c)  $C = \frac{C_1 C_2}{C_1 + C_2}$
  - d) None of these

57. What will be the equivalent capacitance(C) of two capacitors-  $C_1$  and  $C_2$ , if connected in parallel?
- a)  $C_1 + C_2$
- b)  $\frac{1}{C_1} + \frac{1}{C_2}$
- c)  $\frac{1}{C_1 + C_2}$
- d) None of these
58. If three capacitors,  $4\mu F$ ,  $6\mu F$ ,  $8\mu F$  are connected in series. Find out the total capacitance of that circuit if supply voltage is  $1\phi$ , 220, 50Hz AC.
- a)  $185\mu F$
- b) 1.85
- c) 1.85F
- d)  $1.85\mu F$
59. If five capacitors each of 5F, are connected in parallel in a circuit. What will be total capacitance of that circuit?
- a)  $25\mu F$
- b) 25
- c) 2.5Farad
- d) 25Farad
60. A condenser with 2F is connected parallelly with  $1\phi$ , 200V, 50Hz AC supply. Calculate the charge of that capacitor?
- a) 400V
- b) 400Coulomb
- c) 400Amps
- d) 400Volts
61. Capacitor does not allow sudden change in \_\_\_\_\_. [NCVT 2017]
- a) Voltage
- b) Current
- c) Power
- d) None of these
62. Capacitors for power factor correction are rated in \_\_\_\_\_. [NCVT 2017]
- a) KW
- b) KVA
- c) KV
- d) KVAR
63. Which part of magnetic path requires largest mmf? [NCVT 2017]
- a) Air gap
- b) Coil
- c) Inductance
- d) Core