

Examrace

Electrical Engineering Practice Impotent Questions Part 4

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45-If the speed of shunt motor to be controlled between zero and normal running speed N , the most practical way to achieve this would be to insert a resistance of suitable value in:

- A. Parallel with the field
- B. Series with the field
- C. Parallel with the armature
- D. Series with the armature

Ans: D. Series with the armature

46-A Charged body moving along a circle in magnetic field $B = 10^2 T$, a mass $m = 10^5 \text{ Kg}$, velocity = $\frac{1m}{s}$, and charge $q = 10^7$ coulomb. What is the radius of its circular track?

- A. $0.1m$
- B. $10m$
- C. $100m$
- D. $1.0m$

Ans: D. $1.0m$

47-The current generated when a conductor moves across a magnetic field is called:

- A. Active emf
- B. Effective emf
- C. Optimum emf
- D. Induced emf

Ans: D. Induced emf

48-Two coils having equal resistances, but different inductances are connected in series. The time constant of the series combination is the:

- A. Sum of the time constants of the individual
- B. Average of the time constants of individual coils
- C. Product of the time constants of individual coils
- D. Geometric mean of the time constants of the individual coils

Ans: A. Sum of the time constants of the individual

49-Permeance is the reciprocal of

- A. Flux density
- B. Resistance
- C. Ampere turns
- D. Reluctance

Ans: D. Reluctance

50-A DC shunt motor is running at rated load and speed with rated supply voltage. If the supply voltage is halved, then the speed of the motor becomes:

- A. Slightly more than the rated speed
- B. Slightly less than the rated speed
- C. Half of the rated speed
- D. Double of the rated speed

Ans: B. Slightly less than the rated speed

51-Which of the following is not an integrating instrument?

- A. Ampere hour meter
- B. Watt hour meter
- C. Volt meter
- D. Both A & B

Ans: C. Volt meter

52-The main reason for connecting of a pulse transformer at the output stage of the Thyristor triggering circuit is to:

- A. Amplify the power of the triggering pulse
- B. Provide electrical isolation
- C. Reduce the turn on time of the Thyristor

D. Avoid spurious triggering of the Thyristor due to noise

Ans: A. Amplify the power of the triggering pulse

53-One electron is moving in the electric and magnetic field. It will gain energy from:

A. Magnetic field

B. Electric field

C. Both A and B

D. Insufficient information

Ans: C. Both A and B

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