

## Examrace

### Electrical Engineering Practice Impotent Questions Part 5

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54-The function of the starter of the DC motor is:

- A. To limit the starting current
- B. To limit the starting voltage
- C. To increase the field resistance
- D. To reduce armature resistance

Ans: A. To limit the starting current

55-A battery consists of 44 2-volt cells, each with an internal resistance of 0.12 ohm. The voltage of each cell has fallen to 1.8 volt. It is a requirement to charge the battery at a constant current of 4 A from a charger with an internal resistance of 2 ohm. The Applied voltage at the commencement of charge is:

- A. 135.15V
- B. 163.43V
- C. 108.32V
- D. 120.67V
- E. 130.33V

Ans: C. 108.32V

56-The ratio of starting torque to full load torque is minimum in:

- A. Shunt motor
- B. Series motor
- C. Differential compound motor
- D. Commutative compound motor

Ans: A. Shunt motor

57-Photon always propagate with speed  $c$ , but light comes into view to travel at a speed diverse from  $c$  in an opaque medium. We can explain this fact by ... in medium by introducing a phase change upon re-radiation.

- A. Electron oscillators
- B. Discharge Tube
- C. Cathode rays
- D. Electro-magnetic rays

Ans: B. Discharge Tube

58-Frog leg winding is:

- A. Same as simplex winding
- B. Same as duplex winding
- C. Combined lap and wave winding on a single rotor
- D. Duplex wave winding on a single rotor

Ans: C. Combined lap and wave winding on a single rotor

59-In periodic table, semiconductors belong to:

- A. Third group
- B. Fourth group
- C. Fifth group
- D. First group

Ans: B. Fourth group

60-In a DC machine with interpoles, to get improved commutation, the brush shift angle must be:

- A. Varied with change in load
- B. Kept constant
- C. Zero degree
- D. 100 degree

Ans:

61-If the step response of an initially relaxed system is known, then the ramp response can be obtained by:

- A. Integrating the step response
- B. Differentiating the step response twice
- C. Integrating the step response twice

D. Differentiating the step response

Ans: A. Integrating the step response

62-Eddy current losses in a DC machine are given by  $B^2V$  where V stands for:

A. Voltage generated

B. Peripheral velocity

C. Linear velocity of conductors

D. Volume of iron part

Ans: D. Volume of iron part

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