

135/2015

Maximum : 100 marks

Time : 1 hour and 15 minutes

1. In a slip ring induction motor slip rings are connected to the :
(A) Rotor (B) Stator
(C) Exciting field (D) Centrifugal switch
2. Which motor is used for electric traction?
(A) DC compound motor (B) Three phase induction motor
(C) DC series motor (D) DC shunt motor
3. How many slip rings are there in a slip ring induction motor?
(A) 2 (B) 3
(C) 4 (D) 6
4. The stator winding of a 3ϕ slip ring induction motor has 4 poles, How many number of poles in the rotor winding?
(A) 2 (B) 4
(C) 6 (D) 8
5. Which type of capacitor is used in single phase capacitor type motor?
(A) Ceramic capacitor (B) Mica capacitor
(C) Electrolytic capacitor (D) Paper capacitor
6. What is the effect of single phasing in 3ϕ induction motor while running?
(A) The motor will not run (B) Burn out due to overheating
(C) No change in running (D) Will make humming noise
7. What is the maximum safe temperature of class E insulation?
(A) 90°C (B) 130°C
(C) 120°C (D) 150°C

8. Which type of insulation tape is not suitable for insulation purpose?
(A) Varnished cambric tape (B) Plastic tape
(C) Rubber tape (D) Friction tape
9. Which of the following motor does not have a winding or commutator or brush is?
(A) DC shunt (A) DC shunt motor (B) Stepper motor
(C) Slip ring induction motor (D) Universal motor
10. Which colour is recommended for earth connection?
(A) Red (B) Black
(C) Green (D) Blue
11. Which one is the proper location for mounting main switch gear in a building?
(A) In middle position of the building
(B) Separate room under stair case
(C) Accessible place near the termination of service line
(D) Near the gate
12. What is the unit of work done in SI units?
(A) Erg (B) KG Meter
(C) Dyne (D) Joule
13. The power factor of a purely resistive circuit is :
(A) Leading (B) Zero
(C) Unity (D) Lagging
14. An alternating current or voltage is that which :
(A) Changes direction only
(B) Changes magnitude only
(C) Changes both magnitude and direction
(D) None of the above
15. Primary winding of a transformer :
(A) Is always a high voltage winding (B) Is always a low voltage winding
(C) Could either low voltage or high voltage (D) None of these