

SSC JE Electrical 2024 (05.06.2024) Shift - 3rd

Q1. In Fleming left hand rule thumb show

- (a) force
- (b) current
- (c) voltage
- (d) none of these

Q2. In a hysteresis motor, torque depends upon

- (a) rotor mmf, stator mmf, hysteresis angle
- (b) rotor shape
- (c) input current
- (d) none of these

Q3. In a step up transformer, the volt-amp rating of primary is.... Volt-amp rating of secondary

- (a) equal to
- (b) greater than
- (c) less than
- (d) not depend upon

Q4. In dc motor $I_a = 20A$, $R_a = 0.5\Omega$, $V_t = 200$ volt the back emF is _____ volt.

- (a) 180 volt
- (b) 210 volt
- (c) 190 volt
- (d) 230 volt

Q5. In shaded pole motor the shaded winding is on _____ & is also called _____.

- (a) Main winding, shaded pole winding
- (b) Auxiliary winding, main, winding
- (c) Shaded pole winding, Auxiliary winding
- (d) Auxiliary winding, main winding

Q6. In the DC series motor , external resistance is added in the armature circuit, then the effect on armature current is...

- (a) increase
- (b) decrease
- (c) does not affect
- (d) equal

Q7. If slip is one then rotor is

- (a) standstill
- (b) rotor speed is greater than stator speed
- (c) rotor speed is less than stator speed
- (d) none of these

Q8. The power factor of the induction motor is around

- (a) 0.2 to 0.5 lag
- (b) 0.8 to 0.9 lead
- (c) unity
- (d) 0

Q9. What is used for over voltage protection in scr

- (a) varistor
- (b) capacitor
- (c) dc motor
- (d) none of these

Q10. 8 equal capacitor are connected in Parallel having equivalent capacitance $20 \mu\text{F}$ then find its capacitance ?

- (a) $160 \mu\text{F}$
- (b) $40 \mu\text{F}$
- (c) $2.5 \mu\text{F}$
- (d) $100 \mu\text{F}$

Q11. Find force if $I = 40 \text{ A}$, $L = 5 \text{ m}$, $B = 1.4 \text{ T}$, $\theta = 30^\circ$.

- (a) 120 N
- (b) 140 N
- (c) 20 N
- (d) 360 N

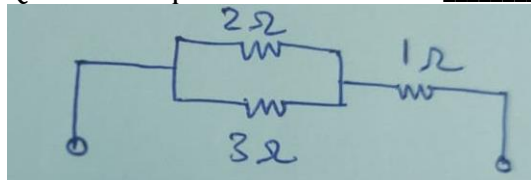
Q12. Relation b/w quality factor (Q) & Bandwidth.

- (a) $Q = B.W * \text{Flux}$
- (b) $Q = \frac{\text{Resonant Frequency}}{BW}$
- (c) Resonant Frequency * Band with = Q
- (d) None of these

Q13. Motor used in P.F. correction

- (a) Overexcited synchronous motor
- (b) DC series motor
- (c) DC Shunt motor
- (d) Induction motor

Q14. Find equivalent resistance _____ (in Ω)



- (a) 2.1Ω
- (b) 2Ω
- (c) 3Ω
- (d) 2.2Ω

Q15. $i(t) = 2\sin wt + 3\sin (3wt) + 5 \sin (5wt)$

This current is flowing with hot wire type instrument then instrument reading is _____ (A).

- (a) $\sqrt{17}$ Amp
- (b) $\sqrt{10}$ Amp
- (c) 5 Amp
- (d) 10 Amp

Q16. How many padma award given in 2024

- (a) 132
- (b) 135
- (c) 122
- (d) 120

Q17. Where is kambala festival celebrated

- (a) Bihar
- (b) Tamilnadu
- (c) Karnataka
- (d) Kerala

Q18. Which is the longest river of rajasthan

- (a) Chambal
- (b) Luni
- (c) Maahi
- (d) None

Q19. Swaraj is my birth right and I shall have it

- (a) Bal Gangadhar tilak
- (b) Tatyatope
- (c) Lala Lajpat rai
- (d) Subhash Chandra bose

Q20. First war of independence

- (a) Revolution of 1857
- (b) War of plasi
- (c) War of buxar
- (d) None

Q21. Which article is allocation of seats in rajya sabha

Q22. Fourth schedule of the constitution

Q23. Who is the governor of Telangana state

Q24. Who is the Chief minister of Nagaland

Q25. Which sports has not been hosted by india.

Q26. 61 constitutional amendment act

Q27. Height of Kanchenjunga mountain

(a) 8000 meter

(b) 8586 meter

(c) 9000 meter

(d) 9586 meter

Q28. who First finance minister of india.

