

NCR Corporation Sample Paper

Q1) The essential condition for using servomotor for high torque at all?

- a) load
- b) speed
- c) voltage
- d) power

Q2) If torque of induction motor is 200n-m at slip 12%. What is the value of torque at slip 6%.....?

- a) 60n-m
- b) 40
- c) 100 n-m
- d) 150

Q3) If speed of induction motor at full load is 950 rpm then what is the speed at half load ?

- a) 1000 rpm
- b) 975

Q4) Find the value of $\int_0^{\pi/2} \cos t + \frac{1}{2} \sin t dt$ where limit is 0 to $\pi/2$?

Q5) What is the slope of $x^3 + 6x^2 + 2x + 1 = 0$?

Q6) For the purpose of constant speed we use?

- a) Brushless dc motor
- b) stepper motor
- c) shaded pole motor
- d) sync motor

Q7) Essential condition for parallel operation of 1phase transformer?

- a) Rating
- b) Polarity
- c) Impedance
- d) Voltage

Q8) Who did give the name of AL?

Q9) World literacy day?

Q10) World environment day?

Q11) If two heaters of 100W & 110 volt other are 150W & 110 volt connect in series with 220v ac source then what is the total power?

Q12) 4pole 3phase 50 htz induction motor running at 1460 rpm. What is the speed of running slip write to rotor?

Q13) Find the new kva rating of transformer which have 220 kva, 1 watt iron loss and 2watt cu loss?

Q14) Hayjs bridge used for the measurement of?

Q15) In R-L-C parallel resonant circuit

- a) Impedance is max.
- b) resistance is min

Q16) Two bulb 100w & 50w respectively with constant resistances connect in series with 220v dc source then what is the value of voltage across first bulb?

Q17) AC ammeter used for measurement in

- a) Pmmc
- b) induction meter
- c) Dynamometer
- d) moving iron type meter