

--	--	--	--	--	--	--	--	--	--

B.E/ B. Tech DEGREE END SEMESTER EXAMINATIONS, Apr/May 2014

B.E- Printing Technology (FULL TIME)

Common to Mechanical, Mining & Manufacturing Engineering

EE 292/ EE 9211 Electrical Drives & Control

III - SEMESTER (REG: 2004/2008)

Time : 3 Hours

Max. Mark : 100

Answer ALL Questions

Part-A(10*2 =20 Marks)

1. Compare active and passive load torque.
2. State the necessary for switch and fuse.
3. Why DC shunt motor is termed as constant speed motor?.
4. Mention the different types of speed control methods for DC series motor.
5. Write the relationship between electrical and mechanical degree.
6. What is the function of inverter?
7. Why starters are required?
8. Mention different starters for AC motors.
9. What is the need for load diagram?
10. Give an example for continuous and intermittent load torque.

Part B-(5*16=80 Mark)

11. Explain heating and cooling curves and service condition of an electric drive.
(Compulsory)
- 12.a. Explain the different types of speed control methods for DC motor.
Or
12. b Explain three phase diode bridge rectifier circuits..
13. (a) Explain the pole changing, stator frequency variation methods for controlling the speed of AC motor.
Or
- 13 (b) Explain rotor resistance and slip power recovery control of slip ring induction motor.
- 14.a. Explain the theory of three point and four point starters.
Or
- 14.b. Explain DOL, auto transformer and star delta starters for AC motors.

15.a Explain how electric drive for a particular application. Also explain the different characteristics of load.

Or

15.b Explain circuit breakers and relays.