

Roll No

EX-8003 (3) (CBGS)

B.E. VIII Semester

Examination, November 2019

Choice Based Grading System (CBGS)

Special Machine

Time : Three Hours

Maximum Marks : 70

- Note:** i) Attempt any five questions.
ii) All questions carry equal marks.

1. a) Draw the permanent Magnet Motor Rotor Structure. 7
b) Derive how the Torque is produced in permanent magnet motor. 7
2. a) Explain the principle operation of Switched Reluctance Motor. 7
b) Derive Torque Produced in Reluctance Motor. 7
3. a) Explain how the speed of Brushless DC Motor is controlled. 7
b) Explain series and parallel winding patterns of Brushless DC Motor. 7
4. a) Draw and explain the characteristics of Permanent magnet DC Motor. 7
b) What are the different applications of Permanent Magnet DC Motor? 7

5. a) How to reduce the Torque Pulsations in Permanent magnet Synchronous Motor. 7
b) Explain any applications of Permanent Magnet Synchronous Motor. 7
6. a) How dynamic torque is produced in switched Reluctance Motor. http://www.rgpvonline.com 7
b) Explain the advantages and disadvantages of Solid Rotors. 7
7. a) Write the differences between Permanent, Hybrid Stepper Motors. 7
b) What are the speed control techniques of Permanent Magnet Synchronous Motor? 7
8. a) Explain how load angle is controlled in Stepper Motor. 7
b) In detail explain sensor less control of Permanent Magnet Synchronous Motor. 7
