http://www.rgpvonline.com [Total No. of Printed Pages: 2 Total No. of Questions: 8] Roll No EX-8003 (3) (CBGS) B.E. Exam **Choice Based 0** Sp Tin Attempt any f Note: i) All questions http://www.rgpvonline.com 1. Describe the VR an production along with 2. Give the principle of How the torque is pr expression. Also exp 3. Explain the construct Less DC Motor, Wha and parallel. What are the ch permanent mag b) Classify the per Write the short note

B.E. VIII Semester		
Examination, May 2019		
ice Based Grading System (CBGS)		
Special Machine Time: Three Hours		
Maximum Marks : 70		
Attempt any five out of eight questions. All questions carry equal marks.		
cribe the VR and PM rotor structures and their torque uction along with their torque angle characteristics. 14		
the principle of operation of switched reluctance motor. the torque is produced explain in brief with the help of ession. Also explain shaft position sensing.		
•		
lain the construction and principle of operation of Brush		
DC Motor. What do you mean by winding pattern series parallel.		
What are the characteristics, parameter and properties of		
permanent magnet motors?		
Classify the permanent magnet motor in details. 7		
te the short note on any two of the following 14		
Design parameter of DC Brushed Motor		
Speed control of DC Brushed motor		
Permanent magnet material		
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6. Explain the PM synchronous motor construction and operation along with speed control and give its applications.

7. Explain in brief

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- a) PM step motors
- Hybrid step motors
- Sensor less control
- What are the power electronics converter for stepper motor? Explain any one in brief.
 - Explain partition of Energy and the effect of saturation in switch reluctance motor.

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