Sanjay Ghodawat University, Kolhapur

Established as State Private University under Govt. of Maharashtra. Act No XL, 2017

2020-21

EXM/P/09/00

Year and Program: **T.Y. B.Tech - 2020-21**	**School of Technology**	**Department:** **Electrical Engineering**
Course Code: ELE309.3	**Course Title:** **Special Electrical Machines & Control**	**Semester :V**
Day : Wednesday **Date: 23.12.2020**	**End Semester Examination**	**Time:2 Hrs.** **Max Marks:50**

Instructions: 1) All Questions are compulsory.
2) Explain with detailed diagram wherever necessary

		Marks	Bloom's Level	CO
Q.1	**Answer the following (any Two)**			
a)	Explain torque-speed characteristics of stepper motor	8	L2	Co2
b)	Classify and explain the types of switched reluctance motor	8	L1	Co1
c)	Compare the switched reluctance motor with stepper motor.	8	L2	Co2
Q.2	**Answer the following (any two)**			
a)	Explain the principal and operation of Synchronous reluctance Motor?	8	L2	Co1
b)	Draw the characteristics of BLDC motor and detail the operation?	8	L3	Co2
c)	Draw the construction of BLDC Motor and explain?	8	L2	Co3
Q.3	**Answer the following (any two) –**			
a)	Visualize the construction of PMSM with detailed diagram?	9	L1	Co2
b)	Details the different power converters used for BLDC Motor in Electric Vehicle application?	9	L3	Co4
c)	Analyze the PMSM in different application?	9	L4	Co4

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