2020-21

Sanjay Ghodawat University, Kolhapur

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

EXM/P/09/00

Year and Program: Final Year B.Tech | **School of Technology: Technology** | **Department: Electrical**

Course Code: EET 401 | **Course Title: Electric Vehicle** | **Semester : VII**

End Semester Examination

Day : Tuesday | **Time : 2 Hrs.**

Date : 15.12.2020 | **Max Marks : 50**

Instructions: 1) All Questions are compulsory.
2) Read the questions very carefully and choose the assumption accordingly

		Marks	Bloom's Level	CO
Q.1	**Answer the following (Any Two)**–			
	a) Draw the block diagram of Hybrid and Battery Operated Electric Vehicle and explain the operation?	8	L2	CO1
	b) Explain the various configuration of Electric Vehicle?	8	L2	CO1
	c) Explain the dynamic effects in Electric Vehicle?	8	L2	CO2
Q.2	**Answer the following (Any two)**			
	a) Compare different types of Motor Suitable for Electric Vehicle Application?	8	L3	CO2
	b) Compare the Buck Converter and Boost Converter for Electric Vehicle Applications?	8	L3	CO1
	c) What is mean by High Specific Energy and High Specific Power? How one can choose the battery among various types of Batteries?	8	L3	CO1
Q.3	**Answer the following (Any two)** –			
	a) Design the Battery Operated Electric Vehicle with Suitable Assumptions?	9	L5	CO4
	b) What is the use of Differentials in Electric Vehicle? Explain the concept with suitable example?	9	L5	CO1
	c) Design the Motor which is suitable for Battery Operated Electric Vehicle using suitable assumptions?	9	L5	CO4