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: AY 2020-21 Final Year B. Tech	**School of Technology**	**Department: Electrical**
Course Code: EET 402.1	**Course Title: Solar & Wind Energy Conversion System.**	**Semester : VIII**
Day and Date: Wednesday,02.06.2021	**End Semester Examination**	**Time:2 Hrs. Max Marks:50**

Instructions: 1) All Questions are compulsory.

		Marks	Bloom's Level	CO
Q.1	**Answer/Solve the following (any Two)**			
a)	Write a note on Optical Properties of solar collectors.	8	L3	CO1
b)	Explain Characteristics of PV system &characteristics of shaded PV system.	8	L2	CO1
c)	Describe thermodynamic description of solar collectors.	8	L2	CO2
Q.2	**Answer/Solve the following (any two)**			
a)	Elaborate battery installation for PV system.	8	L3	CO2
b)	What are the advantages and disadvantages of horizontal axis wind turbine system.	8	L2	CO3
c)	Explain power versus speed curve of horizontal axis wind turbine.	8	L3	CO3
Q.3	**Answer/Solve the following (any two)**			
a)	Illustrate pitch angle control and tip speed ratio control in horizontal axis wind turbine.	9	L3	CO3
b)	Explain operating principle & types of airborne wind turbine.	9	L2	CO4
c)	Elaborate Hill Climb Searching (HCS) method in detail.	9	L4	CO4

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