Sanjay Ghodawat University, Kolhapur

2020-21

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

EXM/P/09/00

Year and Program: 2020-21 TY B.Sc.	**School of Science**	**Department: Physics**
Course Code: PHS 316	**Course Title: Elective SEC II (Renewable Energy and Energy Harvesting)**	**Semester :VI**
Day and Date: Tuesday,01.06.2021	**End Semester Examination**	**Time:2 Hrs. Max Marks:50**

Instructions: 1) All Questions are compulsory.
2) Use of Scientific calculator is allowed.

		Marks	Bloom's Level	CO
Q.1	**Answer/Solve the following (any two)**			
a)	Describe solar pond, solar water heater with merits and demerits.	8	L2	CO1
b)	Write fundamentals of wind energy and its conversion.	8	L1	CO1
c)	Compare wind and solar energy. Also write limitations of both.	8	L2	CO1
Q.2	**Answer/Solve the following (any two)**			
a)	What is piezoelectric effect? Explain working and give examples of materials.	8	L2	CO2
b)	How the energy stored beneath the Earth's crust is helpful? Discuss with diagram the merits and demerits of same.	8	L3	CO2
c)	Can hydro power resources be used for generating energy? How? Write environmental effect of same.	8	L1	CO2
Q.3	**Answer/Solve the following (any two)**			
a)	What is renewable and non-renewable energy? Give examples and difference between them.	9	L1	CO1
b)	Compare Geothermal and hydropower energy. Also write benefits and limitations of both.	9	L2	CO2
c)	Explain energy generated by wind mill with neat labeled diagram and give idea of three blade system.	9	L2	CO1

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