No. of Printed Pages : 1

Sl. No.

21PHY3E2CL

M.Sc. III Semester Degree Examination, April/May - 2023 PHYSICS

Renewable Energy Physics

(CBCS)

Time	:31	Hours Maximum Marks : 70
Note	:	Answer any five of the following questions with question no. 1 compulsory , each question carries equal marks.
1.	Give prob	e an estimated reserve of conventional energy sources. Briefly discuss the 14 elems and the solutions of solar energy utilization.
2.	Desc	cribe in detail, hydroelectric power generation. 14
3.	Explain Photovoltaic effect. Give the fabrication and working of hetero junction 14 solar cell.	
4.	(a) (b)	Give the wind energy scenario of India. 5+9 Discuss the construction and working of horizontal axis wind mill.
5.	Describe in detail the production of ethanol from biomass. 14	
6.	(a) (b)	How energy can be obtained from geothermal methods ?7+7Justify the need of concentrating solar collectors.
7.	(a) (b)	Give the basic principles of wind energy conversion.7+7Explain clearly photosynthesis process.
8.	(a) (b) (c)	Give an account of fossil fuels.5+5+4Write a short note on solar water pumping system.Discuss briefly the criteria for wind site selection.

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