Exam Date & Time: 30-Sep-2020 (10:00 AM - 01:45 PM)



PSG COLLEGE OF ARTS AND SCIENCE

Note: Writing 3hrs: Checking & Inserting Image: 30mins + Grace Time: 15mins

BSc DEGREE EXAMINATION MAY 2020 (Sixth Semester)

Branch - PHYSICS

Marks: 75	CORE ELECTIVE - II - ALTERNATE ENERGY RESOURCES	
Marks: 15	SECTION A	Duration: 225 mins.
A newor all	the questions.	
	588) \$100,000 00 00 00 00 00 00 00 00 00 00 00	
1)	What is called energy chain?	(2)
2)	What are the major classifications of energy?	
~)	what are the major classifications of energy:	.(2)
3)	Define solar constant.	
		(2)
4)	What is solar desalination?	
		(2)
5).	What is photosynthesis?	
		(2)
6)	Mention two advantages of bio gas generation.	(2)
		(2)
7)	What are the sources of geothermal energy?	(2).
		(2).
8)	State the principle of wind energy conversion.	(2)
9)	List two applications of hydrogen energy.	(2)
10)	What are the types of fuel cells?	(2)
	SECTION B	
Answer all	the questions.	
11)	Give an account of alternate energy sources and their significances.	
		(5)
a)		
[OR]	What is the scope of alternative energy system in India? Explain.	
b)	The is the scope of attendance chergy system in mora. Daplant.	(5)
12)	Explain the principle and working of solar collectors.	(5)
ne://evameloud.ir	Menn/renorts/exam-gnaper php	1/2

11/28/2020 14PHU23A

a)		
[OR] b)	How does a solar cooker work? Explain.	(5)
13)	Briefly describe about the biogas generation plant.	
		(5)
a)		
[OR] b)	Explain the utilization of biogas.	(5)
14)	What is geothermal energy? How can it be used?	
		(5)
a)		
[OR]	Explain the design and considerations of vertical axis wind machines.	(5)
15)	Illustrate the utilization method of hydrogen.	
		(5)
a)		
[OR]	Describe the design, principle and operation of a fuel cell.	(5)
	SECTION C	
Answer 3 or	ut of 5 questions.	
16)	Give a detailed account on the production and transfer of solar energy. Also explain the necessity of harvesting alternate energy resources.	(10)
17)	Compare and contrast the concentrating collectors and flat plate collectors.	(10)
18)	Explain about the constructional details and the site selection of biogas generation plant.	(10)
19)	Explain the components of a wind mill, their types and their constructional features.	(10)
20)	How hydrogen can be produced? Explain. (ii)Explain the storage method of hydrogen	(10)
End		