

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI-86
(For candidates admitted during the academic year 2023 – 2024)

B.Voc. DEGREE EXAMINATION, NOVEMBER 2023
SUSTAINABLE ENERGY MANAGEMENT
FIRST SEMESTER

COURSE : MAJOR CORE
PAPER : FORMS OF ENERGY AND ENERGY CRISIS
SUBJECT CODE : 23VS/VM/FC16
TIME : 2 HOURS

MAX.MARKS:50

Q. No.	SECTION A Answer ALL questions (2 x 5 = 10 marks)	CO	KL
1.	What is kinetic energy? Give example.	1	1
2.	Define energy consumption.	1	1
3.	List out some of the non-renewable energy resources.	1	1
4.	State the causes of energy demand.	1	1
5.	Write different units of energy.	1	1
Q. No.	SECTION B Answer ALL questions (4 x 3 = 12 marks)	CO	KL
6.	a. Explain thermal energy and different sources of obtaining thermal energy.	2	2
	(OR)		
	b. Discuss the energy needs of growing economy.	2	2
7.	a. Discuss geothermal energy.	2	2
	(OR)		
	b. Explain the magnetic energy.	2	2
8.	a. Differentiate primary and secondary energy demand.	3	3
	(OR)		
	b. What is meant by sustainable energy? Explain.	3	3
9.	a. Explain fossil fuels and its relevance in energy sector.	3	3
	(OR)		
	b. Why is energy development important?	3	3

Q. No.	SECTION C Answer any ALL questions (2 x 4= 8 marks)	CO	KL
10.	a. Explain biomass energy in terms of its sources and applications. Also mention its shortcomings. (OR) b. List out various factors affecting energy consumption and also explain energy consumption in households.	4	4
11.	a. Discuss global energy demand and its implications. (OR) b. Illustrate possible renewable energy in home.	4	4
Q. No.	SECTION D Answer ALL questions (2 x 10 = 20 marks)	CO	KL
12.	a. Discuss nuclear energy and types of nuclear reaction. Illustrate the pros and cons of nuclear energy. (OR)	5	5
	b. Differentiate renewable and non-renewable energy sources.	5	5
13.	a. Elaborate technology up gradation and strategies to meet energy requirements (OR)	5	6
	b. List out various energy storage systems and discuss any one of them in detail.	5	6