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 : **ALLIED CORE**
PAPER : **ENERGY ECONOMICS**
SUBJECT CODE : **23VS/VA/EE15**
TIME : **3 HOURS**   MAX.MARKS:100

Q. No.	SECTION A Answer ALL questions (2 x 10 = 20 marks)	CO	KL
1.	Define microeconomics.	1	1
2.	Name the basic approaches of consumer behavior.	1	1
3.	What is meant by Global warming?	1	1
4.	List down the clean technologies adopted for sustainability.	1	1
5.	How are natural gas formed?	1	1
6.	Define the term renewable energy.	1	1
7.	Name the various energy policies	1	1
8.	Define energy paradox.	1	1
9.	What is BEE and ECBC? Expand them.	1	1
10.	Define one unit in electricity.	1	1
Q. No.	SECTION B Answer any EIGHT questions (8 x 5 = 40 marks) (FOUR K2 and FOUR K3 questions to be answered)	CO	KL
11.	Explain carbon mitigation and give its significance.	2	2
12.	Compare positive economics and normative economics.	2	2
13.	Briefly outline on the Natural gas market.	2	2
14.	Explain Indian environmental policies?	2	2
15.	Compare and contrast between energy conservation and energy efficiency.	2	2
16.	Summarize on monopoly and oligopoly.	2	2
17.	Write a short note on carbon tax.	3	3
18.	How are coal formed? Explain the production of coal and coal market.	3	3
19.	Demonstrate the future global energy mix and demand.	3	3
20.	Illustrate the effects of pollution and how can it be controlled.	3	3
21.	Illustrate the norms of emission trading.	3	3
22.	Calculate the monthly bill of 2 BHK assuming tariff to be 6 per unit.	3	3
Q. No.	SECTION C Answer any ALL questions (2 x 10= 20 marks)	CO	KL
23.	a. List the types of utility. Explain them in detail. (OR) b. Analyze the concept of consumers equilibrium with a diagram.	4	4

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24.	a.	Examine the law of equimarginal utility.	4	4
		(OR)		
	b.	Analyse the green house gas emissions and its effect on ecology and biodiversity		
Q. No.		**SECTION D**	**CO**	**KL**
		Answer ALL questions **(2 x 10 = 20 marks)**		
25.	a.	What is Nuclear power? Explain the prospects and future of Nuclear power	5	5
		(OR)		
	b.	Explain the basic problem economy with the help of production possibility curve	5	5
26.	a.	Discuss few energy conservation techniques to save energy.	5	6
		(OR)	5	6
	b.	Elaborate on the issues addressed by the National Electricity policy 2005.		