

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

BACHELOR OF VOCATIONAL DEGREE EXAMINATION, APRIL 2024
DEPARTMENT OF SUSTAINABLE ENERGY MANAGEMENT
SECOND SEMESTER

COURSE : ELECTIVE
PAPER : ENERGY MANAGEMENT AND ENERGY AUDIT
SUBJECT CODE : 23VS/VE/EM25
TIME : 3 HOURS **MAX. MARKS: 100**

SECTION A			
Q. No.	All Questions To Be Answered : (10 x 2 = 20)	CO	KL
1	Why is Energy Management Important?	1	1
2	State any two non-commercial energy sources.	1	1
3	What is natural gas?	1	1
4	What do you understand about energy targeting?	1	1
5	List the advantages of Energy Labeling.	1	1
6	State the primary role of an Energy Manager.	1	1
7	Name the two types of Energy audit.	1	1
8	Define investment cost.	1	1
9	Write any two important features of Energy Conservation Act 2001.	1	1
10	Which Sector consumes more energy in India?	1	1
Q. No.	SECTION B (8x 5=40)	CO	KL
11	Answer any FOUR: (11a) Differentiate between Primary and Secondary Energy. (11b) Infer the elements of Energy monitoring. (11c) How Energy efficiency differs from energy Conservation? (11d) Express the Economic benefits of Energy conservation schemes. (11e) How can one calculate the total energy consumption of a house? (11f) Summarize the advantages of studying load curves.	2 2 2 2 2 2	2 2 2 2 2 2
12	Answer any FOUR: (12a) Explain in short about the basic need for energy management for an industry. (12b) Analyze in short about the future of natural gas. (12c) Discuss about the variation of energy pricing between the countries. (12d) How does the energy consumption behavior change? (12e) Why one has to study about the load assessment detail before installing a solar production plant? (12f) Discuss the sector wise consumption of energy with respect to INDIA.	3 3 3 3 3 3	3 3 3 3 3 3

SECTION C			
Q. No.	Answer any TWO: (2 x 10 = 20)	CO	KL
13	(13a) Explain in detail about the different types of Energies with examples and explain their advantages and disadvantages.	4	4
	(13b) Write in detail about the Energy Management Information System.	4	4
	(13c) What are the Roles of an Energy Manager in an Industry?	4	4
	(13d) Predict the advantages of energy efficiency policies.	4	4
SECTION D			
Q. No.	Answer any TWO: (2 x 10 = 20)	CO	KL
14	(14a) Write in detail about the Industrial Energy Management System.	5	5
	(14b) Demonstrate with an example for an economic analysis an energy manager used to follow in an industry.	5	5
	(14c) Review in detail about the Energy Conservation Act 2001.	5	5
	(14d) Access in detail about the economics of depleted energy sources.	5	5
