

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

B.VOC DEGREE EXAMINATION, APRIL 2026
SUSTAINABLE ENERGY MANAGEMENT
SIXTH SEMESTER

COURSE : MAJOR CORE
PAPER : GREEN MANAGEMENT - URBAN AND RURAL SCENARIO
SUBJECT CODE : 23VS/VM/GM66
TIME : 3 HOURS **MAX. MARKS: 100**

SECTION A				
Q. No.	Answer ALL questions:	(10 x 2 = 20)	CO	KL
1.	Define green infrastructure.		1	1
2.	State the purpose of a green roof.		1	1
3.	What is meant by evapotranspiration in trees?		1	1
4.	Define microclimate.		1	1
5.	What is meant by an environmental market?		1	1
6.	Define green finance.		1	1
7.	What is meant by an urban forest?		1	1
8.	List any two types of urban open spaces.		1	1
9.	What is meant by watershed?		1	1
10.	Write a brief note on rural area management.		1	1
SECTION B				
Q. No.	Answer ANY eight questions:	(8 x 5 = 40)	CO	KL
11.	Explain the importance of downspout disconnection in reducing runoff.		2	2
12.	Explain how urban vegetation helps in cooling urban environments.		2	2
13.	Illustrate how companies can apply green marketing strategies to attract environmentally conscious consumers.		2	2
14.	Describe the role of urban planning in sustainable development.		2	2
15.	What are the objectives of participatory water shed development.		2	2
16.	Explain the challenges in green finance in India.		2	2
17.	Describe the basic types of green infrastructure used in cities.		3	3
18.	Apply the concept of microclimate to improve thermal comfort in urban streets.		3	3
19.	Explain how green supply chain management can be implemented in manufacturing industries.		3	3
20.	Explain the different types of urban open spaces with examples.		3	3
21.	Explain forest management in detail.		3	3
22.	Discuss about the drawbacks of urban green spaces.		3	3
SECTION C				
Q. No.	Answer ANY two questions:	(2 x 10= 20)	CO	KL
23.	Illustrate how rainwater harvesting can be implemented in a residential building.		4	4
24.	Compare different cooling strategies used to mitigate urban heat.		4	4
25.	Discuss the importance of eco-labelling in environmental protection.		4	4
26.	Illustrate how urban green spaces can reduce air pollution in cities.		4	4
SECTION D				
Q. No.	Answer ANY two questions:	(2 x 10 = 20)	CO	KL
27.	Demonstrate how microeconomic principles influence investment in green infrastructure.		5	5
28.	Evaluate the effectiveness of urban trees in mitigating the Heat Island effect.		5	5
29.	Show how eco-designing can reduce environmental impacts during product development.		5	5
30.	Discuss about structural resilience and disaster resistance buildings.		5	5
