

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086
(For candidates admitted during the academic year 2016-17& thereafter)

SUBJECT CODE: 16VS/VA/EE15
B. Voc. DEGREE EXAMINATION, NOVEMBER 2021
SUSTAINABLE ENERGY MANAGEMENT

COURSE : ALLIED CORE
PAPER : ENERGY ECONOMICS
TIME : 3 HOURS

MAX. MARKS: 100

SECTION – A (20 MARKS)

ANSWER ALL QUESTIONS: (10 X 1 =10)

I CHOOSE THE CORRECT ANSWER:

1. One tonne of oil equivalent is _____
a) 10000 kcal b) 1000 kcal
c) 1000 kg of oil d) 10Mcal
2. Exhaustible energy sources are known as _____
a) Non-renewable energy b) Renewable energy
c) Commercial energy d) Non-commercial energy
3. Natural gas has become the most preferred fuel due to its _____
a) Greater efficiency b) Cost effectiveness
c) Gaseous fuel d) Both a & b
4. Which of the following is not a secondary energy source?
a) Steam b) Chemicals
c) Electricity d) Wood
5. _____ offers lowest load among the following
a) Toaster b) TV c) Washing machine d) Light

II FILL IN THE BLANKS:

6. Energy efficiency labels are affixed to manufactured products to describe the product's _____
7. ECBC sets minimum standards for design and construction of _____ building
8. Availability based tariff is applicable to _____
9. The fourth largest producer of coal and lignite in the world is _____
10. Natural gas is found in _____.

ANSWER ALL QUESTIONS: (5 X 2=10)

III ANSWER IN A SENTENCE:

11. Energy demand and supply
12. Distinguish between reserves and resources

13. Fuel survey
14. Electric power management system
15. Energy elasticity

SECTION - B

ANSWER ANY TWO QUESTIONS:

(2×15 = 30)

16. Write a note on the classification of the energy resources with suitable examples
17. Write a note on the bureau of energy efficiency
18. Compare the supply sector and Demand sector
19. Write a note on the Energy conservation Act 2001

SECTION – C

ANSWER ANY TWO QUESTIONS:

(2×25 =50)

20. a. Write a note on clean energy.
b. Write a note on carbon tax
21. Calculate the monthly electrical consumption of a house having the following specifications. Assuming tariff to be Rs.12 / Unit

S.NO	APPLIANCES	WATTAGE	NUMBERS	USAGE IN HOURS
1	LED lamp	7	5	9
2	Fan	50	6	12
3	AC(1 ton ,3 star)	60	2	6
4	Micro wave oven	800	1	2
5	Mixer	750	1	5

22. Distinguish the advantages and disadvantages of Renewable energy resources and Non-Renewable energy resources
23. a. What is sustainability? What are the three dimensions of sustainability? Explain in detail
