

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

SUBJECT CODE: 16VS/VM/FC16

B. Voc. END SEMESTER EXAMINATION, NOVEMBER 2021
SUSTAINABLE ENERGY MANAGEMENT

COURSE : MAJOR CORE

PAPER : FORMS OF ENERGY AND ENERGY CRISIS

TIME : 3 HOURS

MAX. MARKS: 100

SECTION A

(20 Marks)

Answer ALL Questions

(10 X 1 = 10)

I. CHOOSE THE CORRECT ANSWER

1. _____ energy is produced by eel.
(a) Sound (b) Magnetic (c) Light (d) Electrical
2. Biomass is a _____ energy source.
(a) Nuclear (b) Non-renewable (c) Renewable (d) Thermal
3. The dimensional formula of energy is _____.
(a) $M^1 L^2 T^{-2}$ (b) $M^1 L^{-2} T^{-2}$ (c) $M^0 L^2 T^{-2}$ (d) $M^1 L^2 T^{-1}$

II. FILL IN THE BLANKS

4. _____ is defined as the capacity to do work.
5. _____ cells can be used to convert the solar energy into electricity.

III. STATE TRUE OR FALSE

6. Non-renewable energy is said to be a clean energy.
7. Emission of Carbon dioxide gas is responsible for greenhouse effect.
8. Renewable resources cannot be depleted over time.

IV. EXPAND THE FOLLOWING

9. LHTES –
10. MSME –

Answer ALL Questions

(5 X 2 = 10)

V. ANSWER IN A SENTENCE OR TWO

11. Energy demand.
12. Law of conservation of energy.
13. Fuel diversification.
14. Any two forms of renewable energy.
15. Any two practical methods of Energy Conservation.

SECTION – B

Answer any TWO Questions

(2 X 15 = 30)

16. Write a brief note on the basic first aid and safety at work place.
17. Give a brief discussion on the age of renewables and alternatives.
18. Discuss the Verification of Ohm's law experiment with circuit diagram.
19. Explain the theory behind the Resistors connected in Series and Parallel using circuit diagram.

SECTION – C

Answer any TWO Questions

(2 X 25 = 50)

20. Write a detailed note on the various forms of energy.
21. Discuss Post Office box - Finding the resistance of the coil verifying the law of combination of resistance connected in Series.
22. Describe in detail about the commissioning of power plants and steps involved.
23. Discuss the Measurement of Current Voltage (IV) Characteristics of Two Solar Cells Connected in Parallel.
