

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI-86
(For candidates admitted during the academic year 2016–17 & thereafter)

SUBJECT CODE: 16VS/VM/FC16
B.Voc. DEGREE EXAMINATION, NOVEMBER 2017
SUSTAINABLE ENERGY MANAGEMENT
FIRST SEMESTER

COURSE : MAJOR CORE
PAPER : FORMS OF ENERGY AND ENERGY CRISIS
TIME : 3 HOURS **MAX.MARKS: 100**

SECTION- A
ANSWER ALL QUESTIONS **(20 X 1 = 20)**

CHOOSE THE CORRECT ANSWER:

1. The unit of energy is
a) kilogram b) second c) joules d) Newton
2. Energy that is stored in any object is called
a) kinetic energy b) potential energy c) vibrational energy d) translational energy
3. The factor which affects the nature of the wind close to the surface of the earth is
a) altitude b) magnetic field c) electric field d) longitude
4. Biogas consists of
a) Argon b) Neon c) Helium d) Methane
5. Solar energy is received in the form
a) conduction b) convection c) radiation d) expansion
6. The unit of capacity of battery is
a) ampere Hrs b) volt Hrs c) resistance hrs d) ergs Hrs

FILL IN THE BLANKS:

7. Energy is the ability to do _____.
8. The first law of thermodynamics is related with _____.
9. _____ is combining of two nuclei to release heat .
10. Per capita means _____.
11. An _____ is a device used for measuring the speed of wind
12. _____ is the cause of ozone layer depletion

ANSWER IN A SENTENCE OR TWO:

13. State the law of conservation of energy
14. What is hydro energy?
15. Expand IEA
16. What is acid rain?
17. Define the term inverter.
18. Give the name of a fuel used in nuclear power plant.
19. State Ohm's law
20. What are spring tides?

SECTION B**ANSWER ANY SIX QUESTIONS:****(6×3=18)**

21. Explain how nuclear energy is converted into electrical energy.
22. What are the advantages and disadvantages of renewable energy?
23. How is tidal energy converted into electricity?
24. What are the causes of energy crisis?
25. How are energy storage systems classified?
26. With diagram explain the energy route of non – renewable energy resources.
27. Convert 1W.yr to joule.
28. Write short note on SMES.
29. How is biomass converted into energy?

SECTION C**ANSWER ANY TWO QUESTIONS:****(2×6=12)**

30. Describe the various non – renewable energy resources.
31. Discuss in detail about the global energy consumption.
32. a) What is the fundamental reason for the energy crisis in most countries?
b) What are the possible solutions of the Energy Crisis?
33. Explain briefly the first aid and safety measures that can be followed in a work place?
