

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

SUBJECT CODE: 16VS/VA/EE15

B.Voc. DEGREE EXAMINATION, NOVEMBER 2017
SUSTAINABLE ENERGY MANAGEMENT
FIRST SEMESTER

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

MAX.MARKS:100

SECTION – A

ANSWER ALL QUESTIONS:

(30x1=30)

I CHOOSE THE CORRECT ANSWER:

1. Which of the following is not a Primary Energy Source?
a) Fossil Fuel b) Natural Gas c) Electricity d) Wood
2. _____ offers highest load
a) Toaster b) TV c) Washing machine d) Light
3. Greenhouse effect refers to increase in
a) Global temperature b) Carbon monoxide c) Atmospheric pressure d) Greenery
4. Which mineral is used for generating atomic or nuclear power?
a) Coal b) Bauxite c) Uranium d) Copper
5. A fuel cell, in order to produce electricity, burns:
a) Helium b) Nitrogen c) Hydrogen d) None of the above
6. Name the gaseous fuel, out of the following which has the highest calorific value :
a) Helium b) Hydrogen c) Methane d) biogas
7. Which one of the following is a renewable energy:
a) Natural gas b) coal c) methane d) nuclear energy
8. Energy resources derived from natural organic materials are called
a) Geothermal energy sources b) fossil fuels c) biomass d) all of these
9. The amount of oil that may become available for use is called oil
a) Reserves b) reservoirs c) traps d) resources
10. Solar energy stored in material such as wood, grain, sugar, and municipal waste is called
a) Fossil fuel b) biomass c) geothermal energy d) natural gas

II FILL IN THE BLANKS:

11. Problems associated with the burning of coal is _____ .
12. _____ of stratosphere provides protection to our life.
13. Two-thirds of the world's known oil reserves are located in _____.
14. Burning of ----- produces the least amount of carbon dioxide per unit of Energy.
15. ----- is one of the problems associated with the burning of coal.

III. STATE WHETHER TRUE OR FALSE

16. Photovoltaic energy is the conversion of sunlight into chemical Energy.
17. Horizontal axis and vertical axis are the types of Wind mills.
18. Oil is the energy source which does not produce carbon di-oxide.
19. Solar energy is derived from heated ground water.
20. Geothermal energy is stored in wood.

IV. Give the full form of the following

21. CPCB
22. BEE
23. kWH
24. OPEC
25. CDM
26. ECBC
27. LPG
28. GWh
29. MNRE
30. WEO

SECTION – B**ANSWER ANY SIX QUESTIONS:****(6x5=30)**

31. Define energy consumption and subsidies.
32. Distinguish between primary and secondary energy resources.
33. Explain the linkage between energy and economic development.
34. Define sustainable development.
35. Explain the tradeoff advantages and disadvantages of coal.
36. What does article 21 of the Kyoto protocol state?
37. What are the factors affecting India's energy development.
38. Write a note on clean energy.

SECTION – C**ANSWER ANY TWO QUESTIONS:****(2x20=40)**

39. Discuss the environmental impact of various forms of energy.
40. Critically analyse the link between energy and economic development.
41. Explain the role played by the Government of India in reducing the gap between demand for and supply of electricity.
42. Critically analyse the energy policy of India.
