

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 2018
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. At present the share of hydro power in the country's total generated units is around
a) 20% b) 25% c) 30% d) 35%
2. Greenhouse effect refers to increase in
a) Global temperature b) Carbon monoxide
c) atmospheric pressure d) Greenery
3. Which of the following States in India does not have proven coal reserve?
a) Andhra Pradesh b) Madhya Pradesh c) Kerala d) West Bengal
4. Which of the following is a renewable energy source?
a) Bitumen b) Solar Energy c) Coal d) Natural Gas
5. Ratio of maximum demand to connected load is termed as:
a) Load factor b) Power factor c) Demand factor d) Form factor\
6. The objective of energy management is
a) To minimize energy costs b) To minimize environmental effects
c) a & b d) None of the above
7. Among the following, which is most important for carrying out a material balance
a) Temperature of Products b) Mass c) Waste Quantity d) Pressure
8. Which one is the key element for successful Energy Management?
a) Top management support b) Planning c) Monitoring d) Training
9. The major source of electrical power generation in India is
a) thermal b) Hydel c) Nuclear d) Wind
10. The Ozone layer in the atmosphere acts as an efficient filter for
a) X-Rays b) UV-A Rays c) UV-B Rays d) Intra red Rays

II FILL IN THE BLANKS:

11. Fuel cells are -----.
12. The outermost layer of the earth is ----- .
13. Common energy source in Indian villages is -----.
14. ----- is not an external source of fund.
15. Specific energy Consumption can be expressed ----- units.

III GIVE THE FULL FORM OF THE FOLLOWING:

16. CFC
17. OPEC
18. kWh
19. MMTOE
20. BEE
21. IREED
22. CCDA
23. GWh
24. CCN
25. ESI
26. FWPA
27. GEF

IV STATE WHETHER TRUE OR FALSE :

28. Methane contributes for global warming.
29. Switching to low carbon fuels is a policy used to deal with climate change.
30. Wind is the major source of electrical power generation in India.

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

31. Distinguish between primary and secondary energy resources.
32. Explain the tradeoff advantages and disadvantages of coal.
33. Write a note on the Indian energy sector
34. Define energy consumption and subsidies
35. Discuss the social and economic impact of clean technology.
36. Discuss the impact of climate change on global energy.
37. What is the significance of energy? Differentiate between commercial and non-commercial sources of energy.
38. Write a note on the bureau of energy efficiency

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

39. Explain the energy trends in the following :
 - a) World primary energy consumption
 - b) Petroleum consumption
 - c) Coal consumption
 - d) Natural gas consumption
40. What is sustainability? What are the three dimensions of sustainability? Explain in detail.
41. Critically analyse the link between energy and economic development
42. Discuss the challenges and solutions of population growth to energy.
