

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

SUBJECT CODE: 16VS/MC/FC16

B.Voc. DEGREE EXAMINATION, NOVEMBER 2016
SUSTAINABLE ENERGY MANAGEMENT
FIRST SEMESTER

REG.NO

COURSE : MAJOR CORE

PAPER : FORMS OF ENERGY AND ENERGY CRISIS

TIME : 3 HOURS

MAX.MARKS : 100

SECTION- A
ANSWER ON THE QUESTION PAPER ITSELF
ANSWER ALL QUESTIONS

(20 X 1 = 20)

CHOOSE THE CORRECT ANSWER:

- _____ is a Renewable energy source
a) solar b) nuclear c) coal d) elastic
- Biomass is _____ matter derived from living, or recently living organisms
a) inorganic b) organic c) physical d) chemical
- Coal production is highest in
a) India b) Japan c) China d) USA
- The fuel used in nuclear power plant is
a) Lithium b) Uranium c) Barium d) Polonium
- Wind energy converts _____ energy to electrical power
a) thermal b) sound c) light d) mechanical
- Ohm's law states
a) $E = R / I$ b) $E = IR$ c) $E = I / R$ d) $= 1 / IR$

FILL IN THE BLANKS:

- Sound energy requires _____ to travel.
- Energy can be neither _____ nor _____.
- Fossil fuels contain high percentage of _____.
- Biofuels are used for _____.
- Wind turbine syndrome is _____.
- Solar energy is _____ energy.

ANSWER IN A SENTENCE OR TWO:

13. What is greenhouse effect?

14. Give any two reasons for the stop of nuclear expansion in the middle 1980's.

15. Explain the term World energy consumption

16. What is the difference between short range and long range marginal cost of renewable energies.

17. Are wind turbines a threat to birds or bats?

18. List any two hydro power plants

19. Is nuclear energy safe

20. State any one disadvantage of tidal energy source

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SECTION B

ANSWER ANY SIX QUESTIONS: (6×3=18)

1. Give the merits and demerits of solar energy
2. Mention three major nuclear power plant accidents
3. What is the India's energy demand of the transport sector?
4. Briefly explain national energy consumption by source
5. Differentiate between energy conservation and energy efficiency
6. Comment on primary sources of energy
7. State the main objectives for renewable energy policies
8. What are the components of power plants
9. Give any three methods of producing energy from biomass

SECTION C

ANSWER ANY TWO QUESTIONS: (2×6=12)

10. With examples explain the two types of energy resources
11. Write a short note on circuit breakers
12. What is Energy Crisis? Explain the causes of Energy crisis
13. List the hazards of electricity and safety measures to be followed while handling electrical equipment.
