

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

**SUBJECT CODE: 16VS/VA/EN35**

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

**COURSE : ALLIED CORE**

**PAPER : ENVIRONMENT AND ECOLOGY**

**TIME : 3 HOURS**

**MAX. MARKS: 100**

**SECTION A**

**(20 Marks)**

**Answer ALL QUESTIONS**

**(10 X 1 = 10)**

**I. CHOOSE THE CORRECT ANSWER**

- \_\_\_\_\_ is the ongoing rise of the average temperature of the Earth's climate system.  
(a) Global warming (b) Climate (c) Weather (d) Climate Modelling
- \_\_\_\_\_ is the process by which a substance changes from one chemical to another by a chemical reaction within the body.  
(a) Biodegradation (b) Biotransformation (c) Bioremediation (d) Phytoremediation
- Biological Diversity Act was passed in the year \_\_\_\_\_.  
(a) 2002 (b) 2000 (c) 2014 (d) 2001
- Unwanted light into a bedroom window of a person trying to sleep is termed to be \_\_\_\_\_.  
(a) Skyglow (b) Light trespass (c) Glare (d) Sky Polarization
- Multicellular parasitic worms are also called as \_\_\_\_\_.  
(a) Helminths (b) Mold (c) Bacteria (d) Fungi

**II. FILL IN THE BLANKS**

- Protection of Plant Varieties and Farmers Rights Act enacted in the year \_\_\_\_\_.
- \_\_\_\_\_ is the study of interactions between living things and the environment.
- The science of fermentation is known as \_\_\_\_\_.

**III. EXPAND THE FOLLOWING**

- CAM –
- BSE –

**Answer ALL QUESTIONS**

**(5 X 2 = 10)**

**IV. ANSWER IN A SENTENCE OR TWO**

- Transboundary.
- Global Warming.
- Eutrophication.
- Equitable use of resources.
- Any two symptoms of infectious diseases.

## SECTION – B

**Answer any TWO Questions**

**(2 X 15 = 30)**

16. Discuss the intellectual property rights and community biodiversity.
17. Write a brief note on Climate Modelling.
18. Write a brief note on Environmental values.
19. Explain how the species of an ecosystem are interdependent on each other.

## SECTION – C

**Answer any TWO Questions**

**(2 X 25 = 50)**

20. Explain the causes, consequences and the control measure of water pollution.
21. Write a detailed note on the following
  - a) Water related disease.
  - b) Cancer and the environment.
22. Explain each of the following in detail
  - a) Aerobic Fermentation Mechanism
  - b) Anaerobic Fermentation Mechanism
23. Discuss the following in detail
  - a) Food security
  - b) Environment impacts of biomass conversion to energy.

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