



USN

Question Paper Version : A

Fifth Semester B.E./B.Tech. Degree Examination, Dec.2025/Jan.2026

Environmental Studies

Time: 1 hr.

Max. Marks: 50

## INSTRUCTIONS TO THE CANDIDATES

1. Answer all the fifty questions, each question carries one mark.
2. Use only **Black ball point pen** for writing / darkening the circles.
3. **For each question, after selecting your answer, darken the appropriate circle corresponding to the same question number on the OMR sheet.**
4. Darkening two circles for the same question makes the answer invalid.
5. **Damaging/overwriting, using whiteners** on the **OMR** sheets are strictly prohibited.

1. The word Ecology is proposed by  
a) Ernst Haeckel  
b) Helena Curtis  
c) Charles Southwick  
d) Charles Darwin
2. In a grass → deer → tiger, food chain, the biomass of grass is 1 ton. The tiger biomass will be  
a) 100 kg  
b) 10 kg  
c) 150 kg  
d) 1 kg
3. Increase in fauna and decrease in flora would be harmful due to increase in  
a) Diseases  
b) CO<sub>2</sub>  
c) O<sub>2</sub>  
d) Radioactive pollution
4. Most stable ecosystem is  
a) Forest  
b) Desert  
c) Ocean  
d) Mountain
5. Which one of the following is an abiotic component of the ecosystem?  
a) Bacteria  
b) Plants  
c) Humus  
d) Fungi
6. Under nourished population is more in  
a) Asia and Pacific  
b) Europe  
c) Australia  
d) South America
7. Phytoplankton in an aquatic ecosystem can be considered as a  
a) Macro-consumer  
b) Consumer  
c) Producer  
d) Organism

8. The word environment is derived from  
a) Greek language  
b) French language  
c) English language  
d) Spanish language
9. Which ecological pyramid is always straight?  
a) Pyramid of biomass  
b) Pyramid of numbers  
c) Pyramid of energy  
d) Both (a) and (b)
10. The World Food Summit (1996) is pledged to reduce the number of hungry people to  
a) 500 million  
b) 400 million  
c) 250 million  
d) 100 million
11. One joule of energy is equivalent to  
a) 0.2389 calories  
b) 23.89 calories  
c) 238.9 calories  
d) 2.389 calories
12. Which of the following is used as moderator in nuclear reactor?  
a) Graphite  
b) Helium gas  
c) Heavy water  
d) All of these
13. Biomass consists of  
a) Lignin  
b) Cellulose  
c) Hemicellulose  
d) All of these
14. Hydrogen can be produced commercially by  
a) Cracking of ammonia  
b) Electrolysis of water  
c) Both (a) and (b)  
d) Gasification
15. One gram of <sup>92</sup>U<sup>235</sup> can give electrical energy equivalent to  
a) 100 MW  
b) 1000 KW  
c) 1 MW  
d) 1000 MW
16. Deforestation generally decreases  
a) Rainfall  
b) Draught  
c) Soil erosion  
d) Global warming
17. Forests are effective sinks of  
a) O<sub>2</sub>  
b) CO<sub>2</sub>  
c) NO  
d) All of these
18. Percentage of fresh water available on the earth is  
a) 2.8%  
b) 0.1%  
c) 10.6%  
d) 12.15%
19. Forest and wild life are  
a) Non renewable resources  
b) Renewable resources  
c) On exhaustible  
d) None of these
20. Mineral is  
a) Organic matter  
b) Synthetic compound  
c) Naturally occurring in organic substance  
d) None of these





# ENVIRONMENTAL STUDIES

## VTU SOLUTIONS DEC 2025-JAN 2026

Question Number	Solutions	Key Answer
1	A	Ernst Haeckel
2	B	10KG
3	B	CO2
4	C	Ocean
5	C	Humus
6	A	Asia and Pacific
7	C	Producer
8	B	French Language
9	C	Pyramid of energy
10	B	400 million
11	A	0.2389 calories
12	A	Graphite
13	D	All of the above
14	C	Both A and B
15	C	1MW
16	A	Rainfall
17	B	CO2
18	A	2.8%
19	B	Renewable resources
20	C	Naturally occurring inorganic substance
21	B	SO2 and NO2
22	D	All of the above
23	C	Water pollution
24	C	Gold
25	A	Sullage
26	C	Both a and b
27	B	Unwanted sound
28	C	Incineration
29	A	Soil conservation
30	A	48hrs
31	B	Atmospheric phenomenon
32	C	22 <sup>nd</sup> April
33	B	Antartica
34	B	Montreal protocol
35	B	Flurosis
36	B	Population growth control
37	D	230 DU
38	A	Ozone layer depletion
39	D	Methyl Iso Cynate
40	B	Global problem
41	A	51A-G
42	A	1986

43	B	1974
44	A	Narmada bachao andolan
45	A	2003
46	A	Water Act
47	C	1986
48	B	1981
49	A	1974
50	A	5 <sup>th</sup> June