

Model Question Paper-1 with effect from 2022-23 (CBCS Scheme)

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Fifth Semester B. E Degree Examination Environmental Studies

TIME: 01 Hours

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.

Answer the following Questions		*Bloom's Taxonomy Level	COs	Marks
Ques.				
1.	Habitat refers to a) Physical conditions of the place where organisms live b) Chemical conditions of the place where organisms live c) Both a & b d) None of a or b	L1	CO1	1
2.	Which of the following energy has the greatest potential among all the sources of renewable energy? a) Solar energy b) Wind Energy c) Thermal energy d) Hydro-electrical energy	L1	CO1	1
3.	The term 'Environment' has been derived from the French word which means to encircle or surround a) Environ b) Oikos c) geo d) Aqua	L1	CO1	1
4.	Which of the following statements is false? a) Inorganic nutrients are recycled in an ecosystem b) Energy 'flows' through the ecosystem in the form of carbon-carbon bonds c) Energy is recycled in an ecosystem d) Respiration process releases energy	L1	CO1	1
5	In terms of greenhouse gas emissions, how good or bad is hydrogen fuel? a) Major contributor of greenhouse gas emissions b) Zero-emission fuel c) Lowest contributor of greenhouse gas emissions	L1	CO1	1

	d)Hydrogen cannot be used as fuel			
6.	A food web consists of a)a portion of a food chain b) an organism's position in a food chain c) interlocking food chains d) a set of similar consumers	L1	CO1	1
7.	In what form is solar energy is radiated from the sun? a)Ultraviolet Radiation b)Infrared radiation c)Electromagnetic waves d)Transverse waves	L1	CO1	1
8.	The by-product of the ocean thermal energy conversion is a)Hot water b)Desalinated water c)Chemicals d)Gases	L1	CO2	1
9.	Where can we find both running water as well as stagnant water? a)Marine ecosystems b)Wetlands c)Coral reefs d)Freshwater ecosystems	L1	CO2	1
10	----- is the conventional source for hydel power. a)Tidal wave b)Currents c)Water d)Ripples	L1	CO2	1
11	Ground water characteristics must be monitored at least once in a till design span. a) Week b) Month c) Day d) Quarter	L1	CO2	1
12	Acid rains are produced by (a)Excess NO₂ and SO₂ from burning fossil fuels (b)Excess production of NH ₃ by industry and coal gas (c)Excess release of carbon monoxide by incomplete combustion (d) Excess formation of CO ₂ by combustion and animal respiration.	L1	CO2	1
13	Which ecosystem is known as giant permanent pond? a)Lake Ecosystem b)Pond ecosystem c)Seashore ecosystem d)Marine ecosystem	L1	CO2	1
14	Which of the following is a producer in an ecosystem a)Plants and some bacteria capable of producing their own food b)Animals c) Human beings d) Fish	L1	CO2	1
15	The transfer of energy & nutrients from one feeding group of organization to another in a series is called. a)Energy chain b) Food Chain c) Balanced ecosystem d) Food Web	L1	CO1	1

16	Which one of the following is a result of climate change? a) Adequate rainfall b) Pure air c) Deficiency of freshwater d) Less soil pollution	L1	CO2	1
17	-----contaminant causes kidney and liver problems if present in groundwater. a) Benzene b) Toluene c) Benzotoulene d) Lead	L2	CO2	1
18	In an ecosystem, the flow of energy is a) Bidirectional b) Cyclic c) Unidirectional d) Multidirectional	L2	CO2	1
19	Which type of turbine is commonly used in tidal energy? a) Francis turbine b) Kaplan turbine c) Pelton wheel d) Gorlov turbine	L1	CO1	1
20	In an ecosystem biological cycling of materials is maintained by a) Producer b) Consumer c) Decomposer d) All of the above	L1	CO1	1
21	What type of energy is wind energy? a) Renewable energy b) Non-renewable energy c) Conventional energy d) Commercial energy	L1	CO1	1
22	Disaster management deals with situation that occurs after the disaster. a) True b) False	L1	CO1	1
23	What is the significance of the ionosphere? a) Aviation movements b) High frequency radio transmission c) Regulates weather d) All of the mentioned	L1	CO1	1
24	World Environment day is on a) 5th May b) 5th June c) 18th July d) 16th August	L2	CO3	1
25	How is hydrogen gas produced from fossil fuels? a) Partial oxidation of methane b) Electrolysis c) Evaporation d) Biomass gasification	L1	CO2	1
26	The Taj Mahal in India is affected by a) Fog b) Acid rain c) Water pollution d) Spoil Pollution	L1	CO1	1

27	Environmental Impact Assessment (EIA) is mandatory under which one of the following India legislations: a) Indian Forest Act b) Air (Prevention and Control of Pollution) Act c) Wildlife Protection Act d) Environment (Protection) Act	L2	CO3	1
28	What is the primary aim of the Air (Prevention and Control of Pollution) Act, 1981? a) To promote water conservation b) To control air pollution and preserve air quality c) To regulate waste management practices d) To protect soil quality	L2	CO3	1
29	Under the Solid Waste Management Rules, 2016, which of the following is NOT a duty of waste generators? a) To segregate waste at the source b) To manage waste through disposal in landfills c) To register with the authorities d) To ensure waste is handled by authorized persons	L1	CO3	1
30	Which year was the Water (Prevention and Control of Pollution) Act enacted? a) 1980 b) 1974 c) 1991 d) 1986	L2	CO3	1
31	Under the Solid Waste Management Rules, 2016, which of the following is NOT a duty of waste generators? a) To segregate waste at the source b) To manage waste through disposal in landfills c) To register with the authorities d) To ensure waste is handled by authorized persons	L2	CO3	1
32	The Water Act, 1974 led to the establishment of which regulatory body? a) Central Water Commission b) Central Pollution Control Board and State Pollution Control Boards c) Ministry of Environment and Forests d) National Green Tribunal	L2	CO3	1
33	According to the Biomedical Waste Management Rules, 2016, which color bin is designated for disposing of infectious waste? a) Yellow b) Blue c) Red d) Black	L1	CO2	1
34	What is the process of movement downwards of vadose water called? a) Infiltration b) Filtration c) Deposition d) Down-flow	L1	CO2	1
35	What is called for the movement of surface litter and topsoil from one place to another? a) Soil submerge b) Soil degradation c) Soil erosion d) Soil pollution	L1	CO1	1

	-----is caused by drinking water high in nitrates. a) Cholera b) Methemoglobinemia c) Kidney problem d) Liver problem	L1	CO1	1
36	In which Act, noise is included as an environmental pollutant? a) 1974 b) 1981 c) 1988 d) 1994	L2	CO3	1
37	What is the upper surface of the zone saturation called? a) Aquifer b) Aquiclude c) Water table d) Aquifuge	L1	CO1	1
38	How many primary pollutants are there? a) Three b) Five c) Seven d) Nine	L1	CO1	1
39	The term 'Municipal Solid Waste' is used to describe which kind of solid waste? a) Hazardous b) Toxic c) Non hazardous d) Non toxic	L1	CO1	1
40	Open cycle OTEC uses surface water directly to make electricity. a) Hot b) Warm c) Cool d) Icy	L1	CO2	1
41	What does OTEC stand for? a) Ocean thermal energy cultivation b) Ocean thermal energy conversion c) Ocean techno energy conservation d) Ocean thermal energy consumption	L1	CO2	1
42	Which of the turbine can be mounted vertically and horizontally? a) Pelton wheel b) Kaplan turbine c) Gorlov turbine d) Francis turbine	L1	CO2	1
43	What type of energy is wind energy? a) Renewable energy b) Non-renewable energy c) Conventional energy d) Commercial energy	L1	CO2	1
44	Tsunami detectors are placed in sea at kms from shore. a) 25 b) 100 c) 50 d) 85	L2	CO1	1
45	What makes desert region to become highly unproductive? a) Salinity b) Sunlight c) Temperature	L1	CO1	1
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	d) Increase in the rain			
47	How can desert ecosystems be conserved? a) By minimizing the human activity b) By pouring water to desert area c) By deforestation d) By killing organisms	L1	CO1	1
48	How the tropical rain forest gets the name? a) Due to less rain b) Due to heavy rain c) Due to moderate rain d) Due to no rain required	L1	CO1	1
49	How can we control acid rain which is causing due to the exhaust fumes on the atmosphere by cars? a) By burning more fuels b) By using old engine vehicles c) By using ignition d) By using catalytic converters	L1	CO1	1
50	Which is the most acidic in pH scale? a) 0 b) 7 c) 10 d) 14	L2	CO2	1