

# 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
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 NO <sub>2</sub> and SO <sub>2</sub> from burning fossil fuels (b)Excess production of NH <sub>3</sub> by industry and coal gas (c)Excess release of carbon monoxide by incomplete combustion (d) Excess formation of CO <sub>2</sub> 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	<p>Environmental Impact Assessment (EIA) is mandatory under which one of the following India legislations:</p> <p>a) Indian Forest Act b) Air (Prevention and Control of Pollution) Act c) Wildlife Protection Act d) <b>Environment (Protection) Act</b></p>	L2	CO3	1
28	<p>What is the primary aim of the Air (Prevention and Control of Pollution) Act, 1981?</p> <p>a) To promote water conservation b) <b>To control air pollution and preserve air quality</b> c) To regulate waste management practices d) To protect soil quality</p>	L2	CO3	1
29	<p>Under the Solid Waste Management Rules, 2016, which of the following is NOT a duty of waste generators?</p> <p>a) To segregate waste at the source b) <b>To manage waste through disposal in landfills</b> c) To register with the authorities d) To ensure waste is handled by authorized persons</p>	L1	CO3	1
30	<p>Which year was the Water (Prevention and Control of Pollution) Act enacted?</p> <p>a) 1980 b) <b>1974</b> c) 1991 d) 1986</p>	L2	CO3	1
31	<p>Under the Solid Waste Management Rules, 2016, which of the following is NOT a duty of waste generators?</p> <p>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</p>	L2	CO3	1
32	<p>The Water Act, 1974 led to the establishment of which regulatory body?</p> <p>a) Central Water Commission b) <b>Central Pollution Control Board and State Pollution Control Boards</b> c) Ministry of Environment and Forests d) National Green Tribunal</p>	L2	CO3	1
33	<p>According to the Biomedical Waste Management Rules, 2016, which color bin is designated for disposing of infectious waste?</p> <p>a) <b>Yellow</b> b) Blue c) Red d) Black</p>	L1	CO2	1
34	<p>What is the process of movement downwards of vadose water called?</p> <p>a) <b>Infiltration</b> b) Filtration c) Deposition d) Down-flow</p>	L1	CO2	1
35	<p>What is called for the movement of surface litter and topsoil from one place to another?</p> <p>a) Soil submerge b) Soil degradation c) <b>Soil erosion</b> d) Soil pollution</p>	L1	CO1	1

36	-----is caused by drinking water high in nitrates. a) Cholera b) Methemoglobinemia c) Kidney problem d) Liver problem	L1	CO1	1
37	In which Act, noise is included as an environmental pollutant? a) 1974 b) 1981 c) 1988 d) 1994	L2	CO3	1
38	What is the upper surface of the zone saturation called? a) Aquifer b) Aquiclude c) Water table d) Aquifuge	L1	CO1	1
39	How many primary pollutants are there? a) Three b) Five c) Seven d) Nine	L1	CO1	1
40	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
41	Open cycle OTEC uses surface water directly to make electricity. a) Hot b) Warm c) Cool d) Icy	L1	CO2	1
42	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
43	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
44	What type of energy is wind energy? a) Renewable energy b) Non-renewable energy c) Conventional energy d) Commercial energy	L1	CO2	1
45	Tsunami detectors are placed in sea at kms from shore. a) 25 b) 100 c) 50 d) 85	L2	CO1	1
46	What makes desert region to become highly unproductive? a) Salinity b) Sunlight c) Temperature	L1	CO1	1

	d) Increase in the rain			
47	<p>How can desert ecosystems be conserved?</p> <p>a) By minimizing the human activity</p> <p>b) By pouring water to desert area</p> <p>c) By deforestation</p> <p>d) By killing organisms</p>	L1	CO1	1
48	<p>How the tropical rain forest gets the name?</p> <p>a) Due to less rain</p> <p>b) Due to heavy rain</p> <p>c) Due to moderate rain</p> <p>d) Due to no rain required</p>	L1	CO1	1
49	<p>How can we control acid rain which is causing due to the exhaust fumes on the atmosphere by cars?</p> <p>a) By burning more fuels</p> <p>b) By using old engine vehicles</p> <p>c) By using ignition</p> <p>d) By using catalytic converters</p>	L1	CO1	1
50	<p>Which is the most acidic in pH scale?</p> <p>a) 0</p> <p>b) 7</p> <p>c) 10</p> <p>d) 14</p>	L2	CO2	1

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