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Fifth Semester B.E Degree Examination, June/July 2024

Environmental Studies

(COMMON TO ALL BRANCHES)

[Max. Marks: 100

## INSTRUCTIONS TO THE CANDIDATES

1.	Answer all	the	hundred	questions,	each	question	carries	ONE	mark.
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- 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.	Atmosphere consists of a) Volume	f 79 percent Nitrogen a b) Weight	and 21 percent oxyge c) Density	n by d) All of these
2.	Which of the following	is a biotic component		
	a)Fungi	b) Solar light	c) Temperature	d) Humidity
3.	In an ecosystem, the flo	ow of energy is		
	a) Bidirectional	b) Cyclic	c) Unidirectional	d) Multidirectional
4.	Which pyramid is alwa	ys upright?		
	a)Biomass	b) Energy	c) Numbers	d) Food chain
5.	The organisms which d	lirectly feed on produc	cers are called	
	a) Saprophytes	b) Decomposers	c) Carnivores	d) Herbivores.
6.	The sequence of eating	and being eaten in an	ecosystem is called	
	a) Food chain	and some caren in an	b) Carbon cycle	
	c) Hydrological cycle		d) Anthroposystem	
7.	The largest reservoir of	f nitrogen in our plane	t is	
	a) Oceans	b) Atmosphere	c) Biosphere	d) Fossil fuels
8.	In an aquatic ecosysten	n phytoplankton can b	e considered as a	
	a)Consumer	b) Producer	c) Saprophytes	d) Macroconsumer
9.	In an ecosystem biolog	ical cycling of materia	als is maintained by	
	a) Producer	b) Consumer	c) Decomposer	d) All of these

0.	The word "Environment" is derived from a) Greek b) French	c) Spanish	d) English
11.	The major atmospheric gas layer in stratospha) Hydrogen b) Carbon dioxide	nere is c) Ozone	d) Helium
12.	World Environment day is on a) 5 <sup>th</sup> May b) 5 <sup>th</sup> June	c) 18 <sup>th</sup> July	d) 16 <sup>th</sup> August
13.	A food web consists of a) Portion of a food chain c) Interlocking food chains	d) A set of similar	
14.	Which of the following is not the environm a) Solid waste c) Air pollution	ental effects of indus b) Water pollution d) Economic gro	***
15.	Mining means a) Conserve and preserve minerals b) To check pollution due to mineral resour c)To extract minerals and ores d) None of these	rces	
16.	EIA can be expanded as a) Environment and Industrial Act c) Environmental Impact Assessment	b) Environment d) Environment	and impact Activities ally Important Activity
17.	Which of the following is a key element o a) Scoping c) Identifying and evaluating alternatives	b) Screening	
18.	"Earth day" is held every year on a) June 5 <sup>th</sup> b) November 23 <sup>rd</sup>	d c) April 22 <sup>nd</sup>	d) January 26 <sup>th</sup>
19.	<ul><li>a) Improved quality of water in lakes</li><li>b) A process in carbon cycle</li><li>c) Result of accumulation of plant nutrier</li><li>d) Water purification technique</li></ul>		¥
20	<ul><li>Which of the following is the most environ</li><li>a) Using chemical fertilizers</li><li>c) Organic farming</li></ul>	onmental friendly ag b) Using insec d) None of the	ticiacs
21	a) Stems b) Roots	c) Leaves	d) Buds
22	Blue baby syndrome is caused by the cora, Phosphates b) Sulphur	ntamination of water c) Arsenic	due to d) Nitrates
23	<ul><li>India has the largest share of which of the</li><li>a) Manganese</li><li>b) Mica</li></ul>	c) Copper 2 of 8	d) Diamond

24.	Out of the following nu a) Nitrogen	trients in fertilizer, wh b) Phosphorous	ich one causes minin c) Potassium	num water pollution d) Organic matter
25.	What is the permissible a) 6 to 9	range of p <sup>H</sup> for drinkin b) 6.5 to 7.5	ng water as per the Ir c) 6 to 8.5	ndian standards? d) 6.5 to 8.5
26.	What is the maximum a a) 1 mg per litre c) 1.50 mg per litre		b) 1.25 mg per litre d) 1.75 mg per litre	
27.	Earths atmosphere cont a) 98	ains % of nitrog	gen c) 21	d) 78
28.	Conversion of ammonia a) Mineralization	um to NO <sub>3</sub> by chemica b) Leaching	l oxidation is termed c) Nitrification	as d) Denitrification
29.	Nitrogen fixing bacteria a) Leaf	exists in of pla b) Roots	nts c) Stem	d) Flower
30.	are referred to a a) Forests	as Earth's lungs b) Carbon cycles	c) Water sources	d) Mines
31.	Cholera and typhoid are a) Worms	e caused by b) Virus	c) Fungus	d) Bacteria
32.	Disfigurement in the tee a) Mercury	eth is caused by excess b) Nitrate	ive amount of c) Fluoride	d) Lead
33.	The required iron conte a) 300 mg/l	nt in drinking water as b) 30 mg/l	specified by BIS is c) 3 mg/l	d) 0.3 mg/l
34.	The most important fue a) U-235	l used by nuclear power b) U-238	er plant is c) U-245	d) U-248
35.	Biogas is produced by a) Microbial activity c) Both (a) and (b)	3/4	b) Harvesting crop d) None of these	
36.	Chernobyl nuclear disas a) 1984	ster occurred in the year b) 1952	c) 1986	d) 1987
37.	Which of the following a) Fossil fuels c) Tidal wave energy	not a renewable source	e of energy? b) Solar energy d) Wind energy	
38.	Hydrogen energy can be a) Heat pumps	e tapped through b) Fuel cells	c) Photovoltaic cells	s d) Gasifiers
39.	Nuclear fusion uses the a) Carbon c) Hydrogen	following as a fuel:	b) Helium d) Water	
40.	Which of the following a) Graphite	is used as moderator in b) Helium gas 3 of	c) Heavy water	d) All of these

41.	Nuclear power plant in Karn a) Bhadravathi c) Raichur		b) Sandur d) Kaiga	
42.	Cow Dung can be uses as a) Manure c) Fuel		b) Production of Bio d) All of these	gas
43.	Molasses from sugar industral Biodiesel b)	ry is used to genera Hydrogen	c) Bioethanal	d) Biomethanal
44.	Nuclear power is being produced a) Carbon-14 c) Petroleum combustion	duced from	b) Nuclear fission d) Natural gas.	
45.	Wind energy generation de a) Direction of wind c) Humidity	pends on	b) Velocity of wind d) Precipitation	
46.	Which of the following is can a) CNG b)	considered as an alt Kerosene	ernate fuel? c) Coal	d) Petrol
47.	Livestock wastes release la a) NH <sub>4</sub> b)	rge amount of NH <sub>3</sub>	in to environment c) NO <sub>3</sub>	d) NO <sub>4</sub>
48.	The depletion of trees is ca a) NO <sub>2</sub> b)	using accumulation SO <sub>2</sub>	n of c) CO <sub>2</sub>	d) O <sub>2</sub>
49.	Excess of fluorides in drin <ul><li>a) Blue babies</li><li>c) Taste and odour</li></ul>	king water is likely	to cause b) Flurosis d) Intestinal irritation	on
50.	What percentage of its geo a) 23 b)	ographical area of a ) 43	country should be un	nder forest cover? d) 33
51.	Environmental pollution is a) Rapid Urbanization c) Afforestation	s due to	b) Deforestation d) a and b	* *
52.	Which of the following is a) CO b	air pollutant? ) O <sub>2</sub>	c) N <sub>2</sub>	d) Au
53.	Which of the following ar a) Plastics b	re biodegradable po ) Domestic sewage	ollutants? e c) Detergent	d) All of these
54.	Mining practices lead to a) Population growth c) Loss of grazing and fer	ctile land	b) Rapid urbanizat d) None of these	ion
55.	The liquid waste from bar a) Sullage c) Storm waste		b) Domestic seway d) Run off	ge
	4	4	of 8	

56.	BOD means	
	a) Biochemical Oxygen Demand	b) Chemical Oxygen Demand
	c) Biophysical Oxygen Demand	d) All of these
	o) Ziopinjoiour o'njgon Zomuna	
57.	Physical pollution of water is due to	
	a) Dissolved oxygen	b) Turbidity
	c) p <sup>H</sup>	d) None of these
	71	
58.	Sound beyond which of the following level car	n be regarded as a pollutant
	a) 40dB	b) 80dB
	c) 120dB	d) 150dB
59.	Smog is	
	a) A natural phenomenon	b) Combination of Smoke and fog
	c) Colourless	d) All of these
<i>(</i> 0	A: 11 /: C	1 11 64
60.	Air pollution from automobiles can be control	
	a) Electrostatic Precipitator	b) Wet scrubber
	c) Catalytic converter	d) All of these
61.	"Minamata disease" is caused due to	
01.	a) Lead	b) Arsenic
	c) Mercury	d) Cadmium
	c) Welcuty	d) Cadillalli
62.	Increase in asthma attacks has been linked to l	nigh levels of
	a) Nitrogen	b) Oxygen
	c) Air borne dust particles	d) All of these
	r	
63.	Population explosion will cause	
	a) Biodiversity	b) Stress on ecosystem
	c) More employment	d) None of these
- i		
64.	Which of the following is having high populat	
	a) India	b) China
	c) USA	d) Europe
65.	The average life expectancy around the world	is ourrently
05.	a) Decreasing	b) Increasing
	c) Not changing	d) Stabilizing
	c) Not changing	d) Staomzing
66.	The major objectives of family welfare progra	ms in India is
	a) Disease control	b) Population growth rate control
	c) Employment generation	d) None of these
	,	.,
67.	Which of the following is not population chara-	acteristic?
	a) Doubling time	b) Total fertility rate
	c) Gross domestic product growth rate	d) Infant mortality rate
60	· · · · · · · · · · · · · · · · · · ·	-
68.	Demography is the study of	h) Population growth
	a) Animal behavior	b) Population growth
	c) River	d) None of these

	The service of global warming is	
69.	The meaning of global warming is a) Increase in temperature of climate c) Solar radiation	<ul><li>b) A planet hotter than earth</li><li>d) Cooling effect</li></ul>
		otection act to be promulgated in India was
70.	The first of the major environmental pr	b) Air act
	a) Water act	d) Noise pollution rules
	c) Environmental act	A TOTAL CONTRACTOR OF THE PARTY
71.	The international protocol to protect th	e ozone layer is
/1.	a) Vienna protocol	b) Kyoto protocor
	c) Cartagena protocol	d) Montreal protocol
72.	The protocol that reduces green house	gas emissions are
	a) Kyoto protocol	b) Cartagena protocor
	c) Montreal protocol	d) Vienna protocol
	- 1 in a la conso	
73.	Population explosion will cause	b) Food scarcity
	a) Socio economical problems	d) All of these
	c) Energy crisis	
74.	Which of the following is not a green	house gas
,	a) Hydro chlorofluoro carbons	b) Methane
	c) CO <sub>2</sub>	d) SO <sub>2</sub>
	Continue around the	world is due to
75.	Primary cause of acid rain around the	b) Sulphur dioxide
	a) Carbon dioxide	d) Ozone
	c) Carbon monoxide	V
76.	Acid rain can be controlled by	
70.	a) Reducing SO <sub>2</sub> and NO <sub>2</sub> emissions	b) Reducing oxygen emission
	c) Increasing number of lakes	d) Increasing the forest cover
		is influenced by
77.	Atmospheric oxidation of SO <sub>2</sub> to SO	b) Humidity
	a) Sunlight	d) All of these
	c) Presence of hydrocarbons	d) The of these
78.	Reduction in brightness of the famou	as Taj Mahal is due to
70.	a) Global warming	b) Air pollution
	c) Ozone depletion	d) Afforestation
		c
79.		ts from the sail by the acid rain is called
	a) Transpiration	b) Evapo transpiration
	c) Leaching	d) Infiltration
90	Major compound responsible for the	e destruction of stratospheric ozone layer is
80.	a) Oxygen	b) CFC
	c) Carbon dioxide	d) Methane
81	. Ozone layer thickness is measured i	n
	a) ppm	b) ppb
	c) Decibels	d) Dobson units

82.	Chloro Fluro Carbons (CFC) are	
04.	a) Non toxic	b) Non flammable
	c) Non carcinogenic	d) All of these
	^	
83.	Formation of ozone layer is explained by	***
	a) Resentment reaction	b) Henderson's reaction
	c) Chapman's reaction	d) Perkins reaction
0.4	Each chlorine free radical can destroy the	following number of ozone molecules
84.		b) 10,000
	a) 1000 c) 1,00,000	d) 100
85.	Which of the following is the purpose of	animal husbandry?
	a) Conservation of animals	b) Production of meat
	c) Conservation of wildlife	d) Conservation of forests
86.	Domesticated animals are used for	* ************************************
00.	a) Dairy products	b) Production of fiber
	c) Production of meat	d) All of these
87.	Ozone hole was first discovered over	h) Antaration
	a) Arctic	b) Antarctica d) Africa
	c) Tropical region	u) Allica
88.	World ozone day is being celebrated on	
	a) 5 <sup>th</sup> September	b) 15 <sup>th</sup> October
	c) 16 <sup>th</sup> September	d) 11 <sup>th</sup> September
00	Bhopal gas tragedy caused due to leakage	pe of
89.	a) Methyl Iso Cyanate (MIC)	b) SO <sub>2</sub>
	c) Mustard gas	d) Methane
	o) Mastara gas	
90.	Animal husbandry results in	
	a) Global warming	b) Acid rain
	c) Ozone depletion	d) None of these
91.	Environmental (protection) Act was ena	acted in the year
71.	a) 1986	b) 1992
	c) 1984	d) 1974
0.4	Til C . Cult de ian anvironmental pr	otection Act to be promulgated in India was
92.	The Wild life protection Act	b) The Air Act
	<ul><li>a) The Wild life protection Act</li><li>c) The Noise pollution Act</li></ul>	d) None of these
93.	The Karnataka State Pollution Control	Board (KSPCB) was established in the year
	a) 1974	b) 1982
	c) 1986	d) 1976

94.	Environmental protection is the responsibilial a) Govt-of India c) Individual	lity of b) NGO's d) All of these
95.	The leader of chipko movement is a) Sunderlal Bahuguna c) Vandana Shiva	b) Medha Patkar d) Suresh Heblikar
96.	Which of the following animals is endang a) Elephant c) Fox	d) Giraffe
97.	Environmental protection is the fundamental Article a) 51-A(g) c) 47	nental duties of the citizen of India under the b) 48-A d) 21
98.	ISO 14000 standards deal with a) Pollution Management c) Environmental Management	b) Risk Management d) None of these
99.	An important NGO involved in Global E a) UNICEF c) WHO	d) CPCB
100	a) Tiwari Committee c) Banerjee Committee	ort to Govt. of India on Environmental education is b) Mehta Committee d) Agarwal Committee
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