Seat	Total No. of Pages : 28
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# M.Sc. Entrance Examination, 2024

## **Department of Environmental Science**

Subject Code: 58727

•	y and Date : Monday, 29-07- ne : 10.30 am to 12.00 pm	2024 Total Marks: 100
Ins	tructions :	
1)	All questions are compul	sory.
2)	Each question carries 1 r	nark.
3)	Answers should be mark appropriate option.	ed in the given OMR answer sheet by darkening the
4)	Follow the instructions g	iven on OMR sheet.
5)	Rough work shall be don	e on the sheet provided at the end of question paper
1.	Which of the following	organization work for biodiversity conservation?
	a) WWF	b) IUCN
	c) Green Peace	d) IPCC
2.	In vermi-composting	are used to produce compost.
	a) Algae	
	b) Fungi	
	c) Bacteria	
	d) Worms	

3.	Carbon monoxide gas affects humans by forming in the blood.	
	a) HbCO	b) HbCO <sub>2</sub>
	c) HbCO3	d) Hb O <sub>2</sub>
4.	What is GIS?	
	a) Geological Information system	
	b) Geographical information system	
	c) Geographical information source	
	d) Geological index system	
5.	The place where the worst nuclear d	isaster took place is
	a) Washington	
	b) Chernobyl	
	c) Bhopal	
	d) Japan	
6.	The main source of energy in the env	rironment is
	a) Solar energy	
	b) Chemical energy	
	c) Nuclear energy	
	d) Bio-electrical energy	

7.	Photosynthesis is found in
	a) Consumers
	b) Producers
	c) Decomposers
	d) Parasites
8.	is the phenomenon where Earth retains heat.
	a) Air pollution
	b) Greenhouse effect
	c) Global effect
	d) Land pollution
9.	Earth Day is celebrated on
	a) 5 <sup>th</sup> June
	b) 22 <sup>nd</sup> March
	c) 22 <sup>nd</sup> April
	d) 16 <sup>th</sup> October
10.	Smog'' is a mixture of
	a) Smoke and Fog
	b) Snow and Fog
	c) Snow and dust
	d) SO <sub>2</sub> and Fog

11.	One of the following is not a nutrition deficiency disease.
	a) Kwashiorkor
	b) Marasmus
	c) Goiter
	d) Plague
12.	energy can be converted into electrical energy by a solar cell.
	a) Chemical
	b) Solar
	c) Wind
	d) Magnetic
13.	Carrier of Dengue disease is mosquito.
	a) Culex
	b) Aedes
	c) Anophelis
	d) House fly
14.	Wildlife Week is celebrated in between
	a) 1 <sup>st</sup> to 7 <sup>th</sup> June
	b) 1 <sup>st</sup> to 7 <sup>th</sup> February
	c) 15 <sup>th</sup> to 21 <sup>st</sup> October
	d) 1st to 7th October

15.	The science that deals with the relationship environment is known as	ionship of various organisms with their
	a) Ecology	
	b) Anthropology	
	c) Geology	
	d) Economies	
16.	The pyramid of energy is always	
	a) Upright	b) Inverted
	c) Spindle shaped	d) Round
17.	The World Wetland Day is celebrate	d on
	a) 22 <sup>nd</sup> March	
	b) 5 <sup>th</sup> June	
	c) 16 <sup>th</sup> September	
	d) 2 <sup>nd</sup> February	
18.	Human population growth curve is a	a curve.
	a) Parabola shaped	
	b) S shaped	
	c) Zig zag	
	d) J shaped	

19.	The unit of sound measurement is
	a) Joules
	b) Calories
	c) Decibel
	d) Hertz
20.	The chemical responsible for Ozone hole is
	a) CFC
	b) H <sub>2</sub> S
	c) CH <sub>4</sub>
	d) NO <sub>2</sub>
21.	problem is not created by noise pollution.
	a) Hypertension.
	b) Diorrhea
	c) Deafness
	d) Irritation
22	are the three R's in environmental protection.
	a) Read, Register, Recall
	b) Random, Register, Recollect
	c) Reduce, Rebuild, Restrict
	d) Reduce, Reuse, Recycle

23.	Greenhouse Effect is
	a) Cultivation of crops in green house to conserve heat
	b) Trapping of heat energy by upper atmosphere
	c) Increase of heat due to atmospheric pollution
	d) Trapping of solar energy due to carbon dioxide gas
24.	Ozone layer is present in
	a) Troposphere
	b) Mesosphere
	c) Stratosphere
	d) Lithosphere
25.	The days and nights are formed because of
	a) Earths rotation
	b) Earth's revolution
	c) 'Sun's rotation
	d) Sun's revolution
26.	Non-green plants like mushroom can't make their own food because
	a) They lack chlorophyll
	b) They are too small
	c) They lack roots to suck water
	d) They lack leaves

27.	Self-purification is a phenomenon associated with
	a) Flowing streams
	b) Ground water
	c) Sewage flow in sewers
	d) Dams
28.	Heat is energy in the process of being transferred from
	a) Low pressure to high pressure
	b) Hot object to cold object
	c) High pressure to low pressure
	d) Cold object to hot object
29.	Highest percentage of gas in air is
	a) Oxygen
	b) Carbon dioxide
	c) Carbon monoxide
	d) Nitrogen
30.	is not having a single river in it.
	a) Maharashtra
	b) Lakshdwip
	c) Assam
	d) Tripura

31.	Floods can be prevented by	
	a) Making land sloppy	
	b) Removing soil cover	
	c) Cutting forests	
	d) Making dams on river	
32.	5 <sup>th</sup> June is celebrated as	
	a) World Environment Day	
	b) World Population Day	
	c) World Hygiene Day	
	d) None of the above	
33.	DDT is a	
	a) Non-biodegradable pollutant	
	b) Biodegradable pollutant	
	c) Antibiotic	
	d) Anti allergic	
34.	In polluted lake, the index of pollution	n can be measured by using this species
	a) Frog	b) Daphnia
	c) Artemia	d) None of the above

35.	Xerophytes are found in
	a) Desert
	b) Tropical rainforest
	c) Deciduous forest
	d) Tundra
36.	BOD stands for
	a) Biochemical Oxygen Dressing
	b) Biotic Oxygen Dropping
	c) Biochemical Oxygen Demand
	d) None of the above
37.	The best source of renewable energy is
	a) Coal
	b) Petroleum
	c) Sunlight
	d) Cattles
38.	The removal of soil by action of water and wind is
	a) Erosion
	b) Pollution
	c) Gleization
	d) Manology

39.	Study of plant environment is
	a) Anatomy
	b) Ecology
	c) Sociology
	d) All of the above
40.	Smog is
	a) Fog+Ash
	b) Smoke + Fog
	c) Co+ H <sub>2</sub>
	d) Smoke + Ash
41.	Natural resources are
	a) Exhaustible resources.
	b) Inexhaustible resources
	c) Both of above
	d) None of the above
42.	SO <sub>2</sub> and CO <sub>2</sub> are the example of
	a) Primary Pollutants
	b) Secondary Pollutants
	c) Smog
	d) None of the above

43.	Ozone is formed in the
	a) Troposphere
	b) Mesosphere
	c) Stratosphere
	d) Thermosphere
44.	Which chemical cause to damage to ozone layer?
	a) CFC's
	b) CH <sub>4</sub>
	c) SO <sub>2</sub>
	d) NO <sub>2</sub>
45.	Soil is considered as in ecosystem.
	a) Edaphic factor
	b) Non-edaphic factor
	c) Both of above
	d) None of the above
46.	A cancer producing substance is
	a) Mutagen
	b) Toxicogen
	c) Rubiscogen
	d) Carcinogen

47.	A substance that affects fetal development, is	
	a) Mutagen	b) Toxicogen
	c) Teratogen	d) Carcinogen
48.	The word soil is derived from	
	a) Solum	b) Sole
	c) Smear	d) Solo
49.	Soil erosion is prevented by	
	a) Over grazing	
	b) Afforestation	
	c) Removal of vegetation	
	d) All of the above	
50.	The ultimate source of energy in an	ecosystem is
	a) Glucose	b) ATP
	c) Protein	d) Sunlight
51.	The Bhopal Disaster occurred on	
	a) December 1984	
	b) January 1985	
	c) August 1986	
	d) None of above	

52.	UNEP Stands for	
	a) United National Economic Progra	mme
	b) United Nations Environment Prog	gramme
	c) United National Energy Programm	ne
	d) None of above	
53.	CRZ Stands for	
	a) Costal Regulation Zone	
	b) City Regulation Zone	
	c) Citizens rule for Zoo	
	d) None of the above	
54.	Which is the following are human in	npacts on environment?
	a) Hunting and Gathering	
	b) Agriculture and conservationism	
	c) Industry and environmentalism	
	d) All of the above	
55.	Which of the following damaging the	e layers in the stratosphere?
	a) 0 <sub>3</sub>	b) CFCs
	c) CF <sub>2</sub> -CF <sub>2</sub>	d) CaOCl <sub>2</sub>

56.	. Which element found more in earth's crust?	
	a) Oxygen	
	b) Silicon	
	c) Aluminum	
	d) Gold	
57.	Nucleic acids have important gene	etic material
	a) Gene	
	b) Chromosome	
	c) Both a & b	
	d) None of the above	
58.	8. Biotic community can be grouped into	
	a) Producer	b) Consumer
	c) Decomposer	d) All of the above
59.	Which of the following is only sour in functional state?	ce of energy that keeps natural ecosystem
	a) Nuclear power	
	b) Sunlight	
	c) Thermal Power	
	d) All of the above	

60.	0. Organisms of ecosystems are linked together in	
	a) Food chains	
	b) Food webs	
	c) Biotic communities	
	d) None of the above	
61.	The Periyar National Park (PNR)	) is located in state.
	a) Orissa	b) Rajasthan
	c) Karnataka	d) Kerala
62.	Phytoplanktons are members of	ecosystem.
	a) Forest	
	b) Aquatic	
	c) Desert	
	d) Grassland	
63.	The process of amplification of process is termed as	specific DNA sequences by an enzymatic
	a) Amplification	
	b) Translation	
	c) Polymerase Chain Reaction	
	d) Microarray	

64.	The term 'Green Revolution' is co	ined by
	a) M. S. Swaminathan	
	b) William Gaud	
	c) Charles Elton	
	d) Eugene Odum	
65.	Alum is used as	
	a) A disinfectant of water	
	b) coagulant of water	
	c) A fertilizer	
	d) A smelling agent of water	
66.	planet is surrounded by a ring.	
	a) Venus	b) Moon
	c) Saturn	d) Mars
67.	The metal constituent of chlorop	hyll is.
	a) Calcium	
	b) Magnesium	
	c) Selenium	
	d) Manganese	

68.	A place where an earthquake originates is called the		
	a) Focus	b) Tsunami	
	c) Fault Line	d) Epicenter	
69.	What is source of sulphur dioxide?		
	a) Power stations and industries usi	ng fossil fuels	
	b) Exhaust fumes of motor vehicles		
	c) incomplete burning of wood		
	d) None of these		
70.	The word 'ecology" (Ökologie) was coined in 1866 by:		
	a) Charles Darwin		
	b) Robert Whittaker		
	c) Arthur Tansley		
	d) Ernst Haeckel		
71.	What is the primary cause of the greenhouse effect?		
	a) Plastic pollution		
	b) Solar radiation		
	c) Ozone depletion		
	d) Greenhouse gas emissions		

72.	72. Which of the following is a major contributor to ocean acidification?			
	a) Deforestation			
	b) Industrial waste			
	c) Plastic pollution			
	d) increased carbon dioxide	d) increased carbon dioxide levels in ocean water		
73.	Tehri dam is built on	river.		
	a) Narmada	b) Ganga		
	c) Yamuna	d) Bhagirathi		
74 received the Nobel Prize for the contribution in development in 2004.		pel Prize for the contribution in sustaina	able	
	a) Rajendrasing Rana			
	b) Wangari Maathai			
	c) LeymahGhowee			
	d) Al Gore			
75.	Which part of plant evapora	es water?		
	a) Stomata			
	b) Fruit			
	c) Branch			
	d) Root			

76.	. Bhopal Gas Tragedy was caused due to leakage of gas	
	a) MIC	b) LPG
	c) CNG	d) SO <sub>2</sub>
77.	Who is the author of 'Silent Spring"?	
	a) Rachel Carson	
	b) James Lovelock	
	c) E. P. Odem	
	d) Vandana Shiva	
78.	Night blindness is caused by deficien	ncy of vitamin
	a) A	b) B
	c) C	d) D
79.	The branch of medical science which as it affects a Community of people is	is concerned with the study of disease s called
	a) Epidemiology	
	b) oncology	
	c) paleontogy	
	d) pathology	
80. Yeast, used in making bread is a		
	a) plant	b) fungus
	c) bacteria	d) seed

81.	. White revolution was a programme related to increase in		
	a) Food production		
	b) Sugar production		
	c) Milk production		
	d) None of these		
82.	Resource is one		
	a) Which is always available in nature		
	b) it is used by all living organisms		
	c) Exists in natural form		
	d) which becomes one when used by	man.	
83.	How does acid rain affect the environment	nment?	
	a) By precipitating clean and fresh rainwater only in freshwater bodies		
	b) By precipitating clean and fresh rainwater in all water bodies at once		
	c) By consuming all polluted water a cycle	and precipitate elean water from water	
	d) By precipitating acidic rainwater		
84.	Which of the following material is no	t in use as compared to others	
	a) Glacial ice	b) revarine water	
	c) Lakes	d) estuarine water	

85.	Grit chamber removes
	a) Gravel and sand
	b) Oil Soap and Grease
	c) Vegetable cutting, peels
	d) Suspended organic substances
86.	What is the major problem with wind energy?
	a) Generates energy from wind
	b) It is a renewable source of energy
	c) Requires large area of land
	d) Compact and does not require large area of land
87.	Sunderbans contains
	a) Mangrove Plants
	b) Alpine tree
	c) Teak forest
	d) Grass
88.	Who amongst the following formed Narmada Bachao Andolan?
	a) MedhaPatkar
	b) Arundhati Roy
	c) Salim Ali
	d) Bahuguna

89.	Which metal is associated with Minamata disease?	
	a) Hg	b) Cd
	c) Cr	d) Pb
90.	EL NINO is generally known as	
	a) Western oscillation	
	b) Southern oscillation	
	c) Northern oscillation	
	d) None of these	
91.	is an example of first comm	ercially produced bacterial pesticide.
	a) Fusarium	
	b) Mycorrhiza	
	c) E. coli	
	d) Bacillus thuringiensis	
92.	When the natality is equal to mortali	ty, the population is at
	a) Stationary phase	
	b) Exponential phase	
	c) Growth phase	
	d) All of these	

93.	Richter scale measures
	a) Wind Intensity
	b) Oceanic Depth
	c) Intensity of tides
	d) Earthquake Intensity
94.	Sustainable development requires that energy resource
	a) cannot be exhausted completely
	b) can be completely exhausted
	c) can destroy the environment
	d) cannot meet the growing demand
95.	Among the following which is the best description of a Carbon negative company?
	a) It removes as much carbon dioxide from the atmosphere as they contribute.
	b) It removes more $CO_2$ from the atmosphere than it contributes.
	c) It releases more $CO_2$ into the atmosphere than it removes.
	d) It balances the whole amount of greenhouse gas released and the amount removed from the atmosphere.

96.	What's the biggest contributor of greenhouse gas (GHG) emissions when you travel?
	a) Eating meals in restaurants
	b) Travelling through railways
	c) Traveling through airplane
	d) Keep shopping at various places
97.	What is the full form of UNFCC with respect to global warming convention?
	a) United Nations Framework Convention on Climate Change.
	b) United Nations Federation Convention on Climate Change
	c) United Nations Framework Center on Climate Change
	d) United Nations Federation Center on Climate Change
98.	Who measures the global warming rate?
	a) Astrologers
	b) Physicist
	c) Philosopher
	d) Climatologist

99.	A compound microscope uses
	a) 2 lenses
	b)1 lens
	c)4 lenses
	d) 5 lenses
100.	is an analytical technique commonly used for separating a mixture of chemical substances into its individual components, so that the individual components can be thoroughly analyzed.
	a) Electrophoresis
	b)Chromatography
	c) Scanning electron microscopy
	d) Complexometric titration

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#### **ENT-58**

#### **ROUGH WORK**

### **ENT-58**