Seat	Total No. of Pages: 16
No.	

## P.G. Entrance Examination, May - 2023 M.Sc. ENVIRONMENTAL SCIENCE Sub. Code: 58727

•			/ednesday, 10 - 05 - 202 . to 12.00 noon	23	Total Marks: 100		
Inst	ructio	ns: 1)	All questions are con	npulsory.			
		2)	Each question carrie	es 1 mark.			
		3)	Answers should be darkening the appro		the given OMR answer sheet by a.		
		4)	Follow the instruction	ons given on	OMR sheet.		
		5)	Rough work shall be paper.	done on the	sheet provided at the end of question		
1.	Isob	oars are	lines drawn on a map	through th	e places having		
	a)	Same a	ambient Temperature	b)	Same atmospheric pressure		
	c)	Same a	altitude above sea leve	1 d)	Same soil type		
2.		The famous Indian creative writer and environmental activist associated wit the dam displaced of people is					
	a)	Meera	Nayar	b)	Medha Patkar		
	c)	Shabai	na Azmi	d)	Arundhati Roy		
3.	Self	purifica	ation is a phenomenor	n associate	d with		
	a)	flowin	g streams	b)	ground water		
	c)	sewage	e flow in sewers	d)	none of the above		
4.	Carl	bon Mo	noxide gas is	·			
	a)	Colou	cless	b)	Odourless		
	c)	Tastele	ess	d)	All the above		

5.	Env	vironmental Science is an	_ scie	nce.		
	a)	Interdisciplinary	b)	Multidisciplinary		
	c)	Intra-disciplinary	d)	All of these		
6.	Foc	od chains are part of				
	a)	energy pyramids	b)	energy cycles		
	c)	food webs	d)	prey-predator relationship		
7.	Tod	lay's human population growth par	ttern i	S		
	a)	linear	b)	exponential		
	c)	multiple	d)	unpredictable		
8.	CFO	C gas is used in				
	a)	Refrigerator	b)	Incinerator		
	c)	Oven	d)	Automobiles		
9.	The World Environment Day is celebrated on					
	a)	5 <sup>th</sup> July	b)	5 <sup>th</sup> June		
	c)	5 <sup>th</sup> February	d)	None of the above		
10.	Par	t of human body firstly affected by	nucle	ear radiation is		
	a)	Bone marrow	b)	Liver		
	c)	Lungs	d)	Brain		
11.	The	maximum photosynthetic activity	in pla	nts take place in		
	a)	Red light	b)	Blue green light		
	c)	Yellow light	d)	Orange light		

12.	Which among the following is clean fuel				
	a)	Petrol	b)	Diesel	
	c)	Electricity	d)	CNG	
13.	In p	photochemical smog	is the prin	ncipal eye irritant gas.	
	a)	Sulphur dioxide	b)	Carbon dioxide	
	c)	Ozone	d)	Dust	
14.		is produced by land	lfills.		
	a)	Methane	b)	Ammonia	
	c)	Hydrogen sulphide	d)	Sulphur dioxide	
15.	Lig	htning effect one of the follo	owing nature	's cycle	
	a)	Carbon cycle	b)	Nitrogen cycle	
	c)	Sulphur cycle	d)	Phosphorus	
16.	One	e third of the rain forest is in	·		
	a)	India	b)	China	
	c)	Brazil	d)	Zaire	
17.		is the internationa	l organisatio	on brings out RED DATA BOOK	
	a)	WWF	b)	IUCN	
	c)	UNO	d)	Earth life	
18.	A n	newspaper contains one of the	e following t	toxic elements	
	a)	Cadmium	b)	Lead	
	c)	Manganese	d)	Mercury	

19.	Highest level of species richness is observed in					
	a)	Tropical rain forest	b)	Temperate grass lands		
	c)	Coniferous forests	d)	Alpine pasture		
20.	The	e lentic system contains	·			
	a)	Stagnant water bodies	b)	Running water bodies		
	c)	Rivers	d)	Streams		
21.	Her	bivores are				
	a)	Primary producers	b)	Secondary consumers		
	c)	Primary consumers	d)	Tertiary consumers		
22.	Wh	ich of the following is nonbiodegr	adabl	e material?		
	a)	paper	b)	wood		
	c)	vegetable residue	d)	plastic		
23.	Aci	d rain is caused by emission of _		<u>_</u> .		
	a)	SO <sub>2</sub> and NO <sub>2</sub>	b)	$H_2S$		
	c)	$\mathrm{CH}_4$	d)	none of the above		
24.	Sou	and wave travels in air at a speed	of			
	a)	300 m/s	b)	340 m/s		
	c)	400 m/s	d)	440 m/s		
25.	Flu	orosis is caused by :				
	a)	Nitrite	b)	Nitrate		
	c)	Lead	d)	Fluoride		

26.	Concept of ecosystem deals with					
	a)	Circulation of material	b)	Exchange of material		
	c)	Consumption of material	d)	None of these		
27.		e troposphere contains approxim	ately _	by mass of the entire		
	a)	80-85%	b)	40-50%		
	c)	50-70%	d)	20-30%		
28.	Wh	ich metal is associated with Mina	mata D	isease?		
	a)	Hg	b)	Cd		
	c)	Cr	d)	Pb		
29.	Pesticides have been found to affect					
	a)	Central nervous system	b)	Respiratory system		
	c)	Digestive system	d)	All		
30.	Wh	ich of the following fuels contain	ns only	one carbon atom?		
	a)	CNG	b)	LPG		
	c)	Petrol	d)	Diesel		
31.	Car	bon Dioxide percentage in clean	air is _			
	a)	0.30	b)	0.03		
	c)	0.003	d)	0.0003		
32.	Def	iciency of fluoride in water caus	es			
	a)	Methanoglobinemia	b)	Fluorosis		
	c)	Dental caries in children	d)	Poliomyelitis		

33.	An	aquifer is associated with		·	
	a)	Water	b)	Groundwater	
	c)	Rain water	d)	Soil erosion	
34.	Reg	golith is the geological name of		·	
	a)	Topsoil	b)	Lome	
	c)	Sand	d)	Silt	
35.	The	The earth's magnetic axis is inclined to it's axis of rotation at an angle of			
	a)	33 1/3°	b)	11 1/2°	
	c)	22 1/2°	d)	8°	
36.	The motor car produces the minimum amount of pollution during				
	a)	Idling	b)	Moving	
	c)	Accelerating	d)	Decelerating	
37.	The	bacteria which survive in the prese	ence	of oxygen are called	
	a)	facultative	b)	aerobic	
	c)	anaerobic	d)	E-coli	
38.	Coa	al based thermal power plants emit			
	a)	sulphur dioxide	b)	nitrogen dioxide	
	c)	particulate matter	d)	all	
39.	The	Nitrogen percentage in air is			
	a)	77	b)	78	
	c)	70	d)	80	

40 was the author of silent spring			ng	
	a)	James Watt	b)	Rene Dubos
	c)	Rachel Carson	d)	Jeremy Cherfas
41.	Rac	lhanagari Wildlife sanctuary is we	ll-kno	own for
	a)	Peacock	b)	Tiger
	c)	Bison	d)	Lion
42.		West Bengal which ground water polic health?	oollut	ant is posing a serious threat to
	a)	Nitrate	b)	Fluoride
	c)	Arsenic	d)	Selenium
43.	Wh	ich river is flowing nearby Kolhap	our?	
	a)	Koyana	b)	Krishna
	c)	Panchaganga	d)	Godawari
44.	The	e average pH of rain water is	•	
	a)	3.2	b)	5.0
	c)	6.5	d)	5.6
45.	LPG	G mostly contains		
	a)	Methane	b)	Butane + Propane
	c)	Methane + Butane	d)	Butane + Acetylene
46.	IRS	stands for		
	a)	Indian Remote sensing		
	b)	Innovative Remote sensing		
	c)	Indian Remote services		
	d)	International research on science		

47.	The	e uppermost layer of earth is	·		
	a)	Mantle	b)	Crust	
	c)	Core	d)	None of these	
48.		are formed by molten la	ıva.		
	a)	Igneous rocks	b)	Sedimentary rocks	
	c)	Metamorphic rocks	d)	None of these	
49.	Wh	ich of the following wave is not	produc	ed by Earthquake?	
	a)	Love Wave	b)	S Wave	
	c)	Raleigh Wave	d)	Newton Wave	
50.	Johannesburg Earth summit on 'Sustainable Development' was held in year				
	a)	2001	b)	2002	
	c)	1972	d)	1982	
51.		ich of the following personaliti vements?	es are	associated with environmental	
	a)	Medha Patkar	b)	Anil Agarwal	
	c)	Sundarlal Bahuguna	d)	All	
52.		is known as father of '	White 1	Revolution' in India.	
	a)	M. S. Swaminathan	b)	Jawaharlal Nehru	
	c)	Verghese Kurien	d)	None of the above	
53.	The	e first National Park established i	n India	is	
	a)	Jim Corbett National Park	b)	Kaziranga National Park	
	c)	Gir National Park	d)	Indira Gandhi National Park	

54.	Gre	een Revolution started in India in t	rlys.		
	a)	1960s	b)	1950s	
	c)	1970s	d)	1940s	
55.	Sile	ent Valley project was located in _		district of Kerala.	
	a)	Wayanad	b)	Kannur	
	c)	Palakkad	d)	Kottayam	
56.	Teh	nri dam is built on	riv	er.	
	a)	Narmada	b)	Ganga	
	c)	Yamuna	d)	Bhagirathi	
57.	received the Nobel prize for the contribution in sustainable development in 2004.				
	a)	Rajendrasing Rana	b)	Wangari Maathai	
	c)	Leymah Gbowee	d)	Al Gore	
58.	Which satellite is exclusively used for education sector in India?				
	a)	LANDSAT	b)	EDUSAT	
	c)	IRS-1A	d)	IRS-2D	
59.	Wh	ich of the following journal is base	ed on	environmental issues?	
	a)	Down to Earth	b)	Sanctuary	
	c)	Hornbill	d)	All	
60.	Wh	ich one of the following is not a n	etwor	k device?	
	a)	Router	b)	Switch	
	c)	Hub	d)	CPU	

61.	The most abundant gas component of the atmosphere is:							
	a)	Ammonia	b)	Nitrogen				
	c)	Sulphur dioxide	d)	Carbon Dioxide				
62.	Whi	Which of the following is bioindicator of SO <sub>2</sub> pollution?						
	a)	White pine	b)	Moss				
	c)	Lichen	d)	All				
63.	Asb	bestos is known to cause						
	a)	Cardiac disease	b)	Urinary Disease				
	c)	Lung Cancer	d)	Cataract				
64.	Ozone hole in the stratosphere was discovered over the							
	a)	North America	b)	Antartica				
	c)	Australia	d)	Greenland				
65.	The chemical system for removal of the ions of salt is called as _							
	a)	Ion transfer	b)	Ionisation				
	c)	Ion Exchange	d)	Ion vapourisation				
66.	Met	chanoglobinemia is actually caused	l due	to				
	a)	Nitrates	b)	Phosphates				
	c)	Sulphates	d)	Chlorides				
67.	Itai	- Itai disease is caused due to						
	a)	Cd	b)	Hg				
	c)	Ag	d)	$NH_{_4}$				

68.	Highly nourished lake is called as				
	a)	Oligotrophic	b)	Mesotrophic	
	c)	Eutrophic	d)	Xerotrophic	
69.	Ear	th Day is celebrated on			
	a)	22 April	b)	21 March	
	c)	5 June	d)	21 September	
70.	Wo	rld Environment is celebrated on _			
	a)	10 April	b)	22 May	
	c)	5 June	d)	2 February	
71.	Inte	ernational Wetland Day is celebrate	ed on	·	
	a)	22 April	b)	21 March	
	c)	22 May	d)	2 February	
72.	Raj	endra Sinh Rana is known for			
	a)	Water conservation	b)	Biodiversity conservation	
	c)	Air pollution	d)	Soil conservation	
73.	'Satyamev Jayate Water Cup' Competition of water conservation is initiated in Maharashtra by				
	a)	Naam Foundation	b)	Pani Foundation	
	c)	Delivering change Forum	d)	CSE	
74.	Wh	ich part of plant evaporates water?			
	a)	Stomata	b)	Fruit	
	c)	Branch	d)	Root	

75.	Carrier of Dengue disease is					
	a)	Aedes Mosquito	b)	Culex Mosquito		
	c)	Housefly	d)	Anopheles Mosquito		
76.	Which state of India is known as 'Tiger State'?					
	a)	Gujarat	b)	West Bengal		
	c)	Madhya Pradesh	d)	Assam		
77.	Which of the following has maximum speed?					
	a)	Light	b)	Sound		
	c)	Water current	d)	Air current		
78.	is called as powerhouse of cells.					
	a)	Ribosomes	b)	Golgi bodies		
	c)	Mitochondria	d)	None		
79.	Me	Medicine of quinine is provided by plant.				
	a)	eucalyptus	b)	aconite		
	c)	cinchona	d)	money		
80.	is bio- indicator of air pollution.					
	a)	Fungi	b)	Bacteria		
	c)	Algae	d)	Lichen		
81.	To conserve coral reef, Govt. of India has Marine Park.			s declared as		
	a)	Gulf of Kutch	b) I	Lakshdweep Islands		
	c)	Andaman Islands	4)	Gulf of Munnar		

82.	The	function of automobile catalytic	c conv	erter is to control emissions of			
	a)	Carbon dioxide and hydrogen					
	b)	Carbon monoxide and hydrogen					
	c)	Carbon monoxide and carbon dioxide					
	d)	Carbon monoxide and nitrogen	dioxid	le			
83.	Hyperplasia means						
	a)	Excessive motility of a muscle					
	b)	) Voracious eating					
	c)	Abnormal increase in number of cells					
	d)	An increase in size of a cell					
84.	The global warming efficiency of a CFC molecule in relation to a CO-, molecule is higher by a factor of						
	a)	125	b)	25			
	c)	20,000	d)	1500			
85.	The chemical that is used to ripen mangoes is						
	a)	Calcium sulphide	b)	Calcium carbide			
	c)	Calcium carbonate	d)	Calcium chloride			
86.	Organisms that generate energy using light are						
	a)	oligotrophs	b)	chaemorganotrophs			
	c)	chaemolithotrophs	d)	photoautotrophs			
87.	ISO - 14000 standards deal with						
	a)	Pollution management	b)	Risk management			
	c)	Environmental management	d)	None of the above			

88.	An important NGO involved in global environmental protection is					
	a)	WHO	b)	UNICEF		
	c)	IUCN	d)	СРСВ		
89.	Bhopal Gas Tragedy was caused due to leakage of					
	a)	MIC	b)	LPG		
	c)	CNG	d)	$SO_2$		
90.	Who is the author of 'Silent Spring'?					
	a)	Rachel Carson	b)	James Lovelock		
	c)	E. P. Odem	d)	Vandana Shiva		
91.	Unit of measurement of NOISE is					
	a)	PPM	b)	PPB		
	c)	Decibel	d)	Dobson units		
92.	The pH value of normal rainwater is					
	a)	7.5	b)	6.5		
	c)	5.6	d)	8.0		
93.	Which of the following gas is known as laughing gas?					
	a)	Methane	b)	Ammonia		
	c)	Nitrous oxide	d)	Sulphur dioxide		
94.	Liquid waste from bath and kitchens is called as					
	a)	sullage	b)	domestic sewage		
	c)	effluent	d)	black water		

95.	Which one of the following gas is not a Green-House Gas (GHG)?				
	a)	Methane	b)	Nitrous Oxide	
	c)	Sulphur Hexafluoride	d)	Carbon Monoxide	
96.	Night blindness is caused by deficiency of vitamin				
	a)	A	b)	В	
	c)	C	d)	D	
97.	The Great Indian Bustard bird is found in				
	a)	The dessert of Rajasthan	b)	Western Ghats	
	c)	Himalayan ranges	c)	Coastal region of India	
98 are the major components of pho			ts of photochemical smog.		
	a)	PAN	b)	VOC	
	c)	Nitrogen oxides	d)	All	
99.	Which one of the following is nonmetal that remains liquid at room temperature?				
	a)	Phosphorous	b)	Bromine	
	c)	Chlorine	d)	Helium	
100	. Whi	ch of the following is used in penci	ils?		
	a)	Graphite	b)	Silicon	
	c)	Charcoal	d)	Phosphorous	

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## Rough Work