-	ect Code:SELECT	Date: 2025-03-16	
-	ect Name: Duration: 108.0 minutes	Total Marks: 108	
Instru	ictions:		
The r	eason for Sea Level rise is		Marks: 2
0	Depletion of ozone layer		
0	Global warming		
0	Smog		
0	Acid Rain		
The ty	ype of generator used in HAW	T which supply power to the grid line is	Marks: 2
0	Synchronous Induction Generato	r	
0	D.C Generator		
0	A.C. Generator		
0	Asynchronous Generator		
Atmo	sphere of big cities is polluted	l by	Marks: 2
0	Household Waste		
0	Radioactive Fallout		
0	Pesticides		
0	Automobile Exhaust		



BOD	Measures	Marks: 2
0	content of bacteria	
0	Content of inorganic matter	
0	Carbonic matter in domestic sewage	
0	OUD	
BOD	stands for	Marks: 2
0	Biochemical Oxygen Dissolution	
0	Biochemical Oxygen Demand	
0	Biochemical Oxidation Demand	
0	Biological Oxygen Demand	
The c	omponent of environment made of sea, rivers, lakes, etc is called	Marks: 2
The c	omponent of environment made of sea, rivers, lakes, etc is called Atmosphere	Marks: 2
		Marks: 2
0	Atmosphere	Marks: 2
0 0	Atmosphere Hydrosphere	Marks: 2
0 0 0	Atmosphere Hydrosphere Biosphere	Marks: 2
0 0 0	Atmosphere Hydrosphere Biosphere Lithosphere	
0 0 0	Atmosphere Hydrosphere Biosphere Lithosphere ich atmospheric layer do most cloud form ?	
0 0 0	Atmosphere Hydrosphere Biosphere Lithosphere ich atmospheric layer do most cloud form ? Stratosphere	

WITTE	n type of clouds are responible for thunderstorm	Marks: 2
0	Cirrus	
0	Stratus	
0	Cumulonimbus	
0	Nacreous	
Which	n is the lowest layer of the atmosphere	Marks: 2
0	Stratosphere	
0	Mesosphere	
0	Troposphere	
0	Thermosphere	
The o	zone layer is mainly found in which atmospheric layer	Marks: 2
The o	zone layer is mainly found in which atmospheric layer Troposphere	Marks: 2
		Marks: 2
0	Troposphere	Marks: 2
0	Troposphere Stratosphere	Marks: 2
0 0 0	Troposphere Stratosphere Mesosphere	Marks: 2
0 0 0	Troposphere Stratosphere Mesosphere Exosphere	
0 0 0 0	Troposphere Stratosphere Mesosphere Exosphere ich layer do most airplanes fly ?	
0 0 0 0	Troposphere Stratosphere Mesosphere Exosphere ich layer do most airplanes fly ? Stratosphere	

The h	ottest layer of the atmosphere is	Marks: 2
0	Troposphere	
0	Stratosphere	
0	Thermosphere	
0	Mesosphere	
Which	a layer is known as the "ionosphere" due to its charged particles?	Marks: 2
0	Troposphere	
0	Stratosphere	
0	Thermosphere	
0	Mesosphere	
The o	utermost layer of the Earth's atmosphere is called?	Marks: 2
0	Troposphere	
0	Mesosphere	
0	Thermosphere	
0	Exosphere	
In a fo	ood chain	Marks: 2
0	energy flows from tropic level-1 to tropic level-4	
0	energy flows from tropic level-4 to tropic level-1	
0	energy does not flow	
0	energy flows from tropic level-4 to tropic level-3	



wnicr	h fuel used in automobiles produce least pollution?	Marks: 2
0	CNG	
0	LPG	
0	Diesel	
0	Petrol	
Coal i	is the main contributor of	Marks: 2
0	CO■	
0	SO■	
0	N■	
0	CO	
Which	h gas is mainly responsible for green house effect?	Marks: 2
Which	h gas is mainly responsible for green house effect ?	Marks: 2
		Marks: 2
0	CO■	Marks: 2
0	CO■ CFC	Marks: 2
0 0 0	CO■ CFC CH■	Marks: 2
0 0 0	CO■ CFC CH■ N■O	
O O O Hydro	CO■ CFC CH■ N■O Ogen fuel cell	
O O O Hydro	CFC CH■ N■O ogen fuel cell produce electric power by burning of hydrogen gas	

vilat	is typical number of blades in most mordern HAWTs?	Marks: 2
0	1	
0	2	
0	3	
0	6	
What	happens if the wind speed exceeds the turbine's cut-out speed?	Marks: 2
0	The turbine speeds up	
0	The turbine stops to prevent damage	
0	The turbine stores extra energy	
0	The turbine reverses its rotation	
What	is the main function of the yaw mechanism in a HAWT?	
Tinat	is the main function of the yaw mechanism in a nawr:	Marks: 2
0	To adjust the blade pitch	Marks: 2
		Marks: 2
0	To adjust the blade pitch	Marks: 2
0	To adjust the blade pitch To rotate the nacelle to face the wind	Marks: 2
0 0 0	To adjust the blade pitch To rotate the nacelle to face the wind To slow down the rotor speed	Marks: 2
0 0 0	To adjust the blade pitch To rotate the nacelle to face the wind To slow down the rotor speed To generate electricity directly	
O O O Where	To adjust the blade pitch To rotate the nacelle to face the wind To slow down the rotor speed To generate electricity directly are the most HAWTs installed ?	
O O O Where	To adjust the blade pitch To rotate the nacelle to face the wind To slow down the rotor speed To generate electricity directly are the most HAWTs installed ? Underground	

	is the main advantage of a HAWT over a VAWT (Vertical Axis Wind Turbine) ? Marks: 2
0	Can operate in all wind direction without orientation
0	More efficient at converting wind energy
0	Require less land area
0	Works better in low wind speed
In hor	izontal axis Wind Turbine (HAWT) where generator is placed ? Marks: 2
0	In the nessel
0	Above the tower
0	At ground level
0	In the gearbox
Which	of the following solid waste disposal methods is ecologically most acceptable ? Marks: 2
Which	
	Marks: 2
0	Marks: 2 Sanitary land fill
0	Marks: 2 Sanitary land fill Inclineration
0 0 0	Sanitary land fill Inclineration Composting
0 0 0	Sanitary land fill Inclineration Composting Pyrolysis AWT, the rotor shaft is aligned in which direction?
0 0 0	Sanitary land fill Inclineration Composting Pyrolysis AWT, the rotor shaft is aligned in which direction ? Marks: 2
0 0 0 In a H	Sanitary land fill Inclineration Composting Pyrolysis AWT, the rotor shaft is aligned in which direction? Marks: 2 Horizontal

What	does HAWT stand for ?	Marks: 2
0	Horizontal Axis Wind Turbine	
0	Horizontal Axis Wind Tubeline	
0	Horizonal Airflow wind Turbine	
0	Hybrid Axis Wind Technology	
Which	n is the most common material used for mordern HAWT blades?	Marks: 2
0	Carbon Fibre	
0	Fibreglass - reinforced plastic	
0	Pure aluminium	
0	Titanium Alloy	
The b	iggest pollutant receptor or sink on the earth is	Marks: 2
0	Hyrdosphere	
0	Lithosphere	
0	Atmosphere	
0	Biosphere	
As pe	r IS Code, the acceptable noise level in urban residental area is	Marks: 2
0	35-45 dBA	
0	45-55 dBA	
0	30-40 dBA	
0	40-50 dBA	



Which	is the largest ecosystem on the earth?	Marka, 0
		Marks: 2
0	Forests	
0	Sea	
0	Deserts	
0	Grasslands	
In bio	gas plant, digestion takes place in the absense of	Marks: 2
0	Oxygen	
0	Carbon dioxide	
0	Hydrogen	
0	Methane	
The d	aily cover of MSW landfills consists of which of the following	Marks: 2
0	Compacted Soil	
0	Geomembrane	
0	Geotextile	
0		
	Geocomposite	
In the	Geocomposite atmosphere reaction between Nitrogen oxides, hydrocarbon and sunlig	ht produces Marks: 2
In the		-
	atmosphere reaction between Nitrogen oxides, hydrocarbon and sunlig	-
0	atmosphere reaction between Nitrogen oxides, hydrocarbon and sunlig	-



Noise	pollution is measured in Marks: 2
0	Decibel
0	Newton
0	Dyne
0	ECO
	ables, grass, trees, etc are which type of biotic components ? Marks: 2
0	Producers
0	Consumers
0	Decomposers
0	Transformers
Nacel	le is used in Marks: 2
0	Darious wind turbine
0	Savonious wind turbine
0	Horizontal axis wind turbine
0	Water pumping wind mill
Due to	o 'Ozone hole' in the earth's atmosphere, which ray comes to earth surface ? Marks: 2
0	Laser rays
0	X-rays
0	I litura vali at unive
_	Ultravoilet rays

the human activites are termed as Marks: 2 O Soil Erosion O Soil Pollution O Desertification O Salination Minamata disease is caused by _____ Marks: 2 0 Mercury O Lead O Zinc 0 Manganese Which of the following is an artifical ecosystem? Marks: 2 O Forests O Desert O Fish house O Pond

Less of removal of the superficial layer of soil by the action of water, wind, or by

cardiovascular diseases in humans? Marks: 2 0 Lead O Benzene O Carbon Monoxide (CO) 0 Particulate matter (PM10) What is the approximately range of mordern solar photovoltaic (PV) panels in converting sunlight in to electricity? Marks: 2 5-10% 0 O 15-20% O 20-30% O 40-50% CFCs are not recommended to be used in refridgerator because they _____ Marks: 2 0 Increase Temperature 0 Deplete Ozone 0 Affect Environment

Which pollutant is primarily responsible for causing respiratory problems and



0

Affect Human Body

	s are present in layer of atmosphere.
	Marks: 2
0	Stratosphere
0	Troposphere
0	Thermosphere
0	Mesosphere
Which	pollutant is commonly associated with blue baby syndrome in infants ? Marks: 2
0	Lead
0	Arsenic
0	Mercury
0	Nitrate
Which	disease is known as 'pain-pain-diseases' due to serve bone pain and fractures ? Marks: 2
Which	
	Marks: 2
0	Marks: 2 Black Lung Disease
0	Marks: 2 Black Lung Disease Itai-Itai Disease
0 0 0	Marks: 2 Black Lung Disease Itai-Itai Disease Sillicosis
0 0 0	Marks: 2 Black Lung Disease Itai-Itai Disease Sillicosis Fluorosis occupational diseases is caused by inhaling coal dust over a long period?
O O O Which	Marks: 2 Black Lung Disease Itai-Itai Disease Sillicosis Fluorosis occupational diseases is caused by inhaling coal dust over a long period ? Marks: 2
O O O Which	Marks: 2 Black Lung Disease Itai-Itai Disease Sillicosis Fluorosis occupational diseases is caused by inhaling coal dust over a long period? Marks: 2 Asbestosis

	is the primary poltant responsivle for Flurosis ?	Marks: 2
0	Fluroide	
0	Lead	
0	Sulfur dioxide	
0	Arsenic	
The B	HOPAL GAS TRAGEDY was caused due to which leakage of gas?	Marks: 2
0	Carbon Monoxide	
0	Methyl isocyanate (MIC)	
0	Sulfur dioxide	
0	Nitrogen dioxide	
Which	n disease is associated with inhaling silica dust?	Marks: 2
Which	disease is associated with inhaling silica dust? Silicosis	Marks: 2
		Marks: 2
0	Silicosis	Marks: 2
0	Silicosis Asbestosis	Marks: 2
0 0 0	Silicosis Asbestosis Itai-Itai Disease	Marks: 2
0 0 0	Silicosis Asbestosis Itai-Itai Disease Blue Baby Syndrome	
O O O Acid F	Silicosis Asbestosis Itai-Itai Disease Blue Baby Syndrome Rain is mainly caused by which pollutants?	
0 0 0 Acid F	Silicosis Asbestosis Itai-Itai Disease Blue Baby Syndrome Rain is mainly caused by which pollutants? Carbon monoxide and Lead	

What is the main source of Cadmium Contamination leading to Itai-Itai diseases

Marks: 2

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()	- Crtilizor	runati
\cup	Fertilizer	TUHUH

- O Industrial wastewater
- O burning of fossil fuels
- O Oil spills