Paper / Subject Code: 24217 / Biochemistry Paper II

	Time: 5 nours	otai marks: 190
Instru	ctions to the candidates:-	
1) All	the questions are compulsory. Choice is internal.	
2) Fig	gures to the right indicate full marks.	
3) All	questions carry equal marks.	
	aw flowcharts /diagrams wherever necessary.	
Q1A)	Fill in the blanks: (any three)	3
i)	Atmospheric concentration of carbon dioxide is about ppr	\mathbf{n}
ii)	The temperature range in mesosphere is	
iii)	Ozone is present in	
iv)	is a natural source of sulphur oxides.	
Q1B)	Define and explain any one :	3000
i)	Enlist the minor components comprising the atmosphere	
ii)	What is the Van Allen Belt?	S. S
/		
Q1C)	Write a short note on any one :	6
i)	Green House effect	
ii)	Different regions of the atmosphere.	
Q1D)	Attempt any one:	8
i)	In detail discuss hydrocarbons and photochemical smog as air pollutants.	
ii)	Oxygen and its ionic species of oxygen as well as sulphur dioxide lead to chemical and photochemical reactions in the atmosphere. Elaborate on the same.	
Q2A)	Fill in the blanks: (any three)	3
i)	is a very toxic form of mercury.	3
ii)	% of earth's water supply is unfit for human consumption	
iii)	The solubility of oxygen with increasing temperature.	
iv)	Evaporation converts form of water to gaseous form	
Q2B)	Define and explain the term any one:	3
i)	Flocculation	
ii)	Water cycle	
Q2C)	Write a short note on any one:	6
i)	Secondary water treatment (ii) Organic water pollutants	
Q2D)	Answer any one:	8
i) .	Give a detailed account of oil spills	
	Flahorate on heavy metal pollution	

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Q3A)	Fill in the blanks: (any three)	3
i)	Permissible value of noise in residential area is	
ii)	Pests can be killed by use of a	1 1 2 C
iii)	Weathering of rocks leads to the formation of	
iv)	Nitrobacter converts to nitrate	
Q3B)	Answer in brief any one:	3
i)	Define and explain: Decibel	
ii)	How is soil formed?	
Q3C)	Answer any one :	6
i)	Write a note on Classification of noise.	A C
ii)	Describe the biogeochemical cycle by which nitrogen is converted into various chemical forms .	
Q3D)	Answer in detail any one :	8
i)	Discuss the harm pesticides and herbicides can cause to soil.	
ii)	Elaborate on many people complaining of various ill-health conditions arising due to noise pollution in cities across India.	
Q4A)	Fill in the blanks: (any three)	3
i)	is a pollutant free energy source	
ii)	Asbestos is used inindustry	
iii)	is added to low density plastic	
iv)	Chemiluminescence is used to monitor	2
Q4B)	Define and explain the following any one:	3
i)	Poly Chlorinated Biphenyls	
ii)	SNG	
046	Write short nates on any ana of the following:	6
Q4C)	Write short notes on any one of the following: Acid mine drainage	O
i) ii)	Approaches to monitor water	
	Approaches to monitor water	
Q4D)	Justify any one of the following:	8
i)	Elaborate on the energy resources of the future.	
ii)	Write a descriptive note on biopolymers and plastics being major industrial pollutants.	

QSA	write orier notes on.	0.10
i)	Composition of atmosphere	000
	OR	4,50
i)	Particulate matter in atmosphere	N. W. Y.
ii)	Thermal pollution	
,	OR STATE	
ii)	Chlorination for water treatment	
iii)	Soil profile	
111)	OR	3000 S
iii)	Methods used for measurement of noise.	
iv)	Air monitoring	
11)	OR	
iv)	Coal and coke	300
11)	Cour and coxe	500
Q5B)	State TRUE or FALSE: (any four)	
i)	Ozone hole is present over Africa	(\$) 9 (\$
ii)	Troposphere is the region of atmosphere closest to the earth surface	
iii)	Humus is dark organic material in soils, produced by the	9 V. V.
111)	decomposition of vegetable or animal matter and essential to the	
	fertility of the earth.	
iv)	Human ear is susceptible to sound of 2 Hz	9
v)	Sulphur oxides lead to acid rain	
vi)	Remote sensing has no application in pollution control	