## The Open University of Sri Lanka M.Sc. in Environmental Science Environmental Pollution- BYP9503/NEP1209- Level 9- 2018/19 Assessment Test I (Open Book Test)

Duration: 1 Date: 01 <sup>st</sup> o	hour 30 minutes I June 2019	Reg. No.:
Answer <b>all</b> qı	nestions on this paper itself.	
	le activities have led to increase in levels of nd secondary pollutants and harmful for h	
(i) I	Distinguish between primary and secondary	pollutants.
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	elect from the pollutants given below, nonoxide (CO), nitrogen oxides (NO <sub>x</sub> ), ozon	e (O3). Sulphur oxides (SOx), methane (CH4)
Primary p	ollutants:	
Secondar	y pollutants:	······································
(iii) lo	lentify the one man-made source of each of	the primary pollutants.
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	(1V)	primary air pollutants and two environmental effects due to those secondary pollutants.
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(b) con	Compare aposition.	photochemical smog (or brown smog) with industrial smog (or grey smog) in terms of their
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oiog con he	geochemi plex orga	ndisturbed eco system, all substances are processed through an intricate network of cal cycles during which substances are taken in by plants, move through food chain to anisms which decompose to simpler forms to be used again by plants. Pollution occurs when nent is overloaded beyond the capacity of these normal processing systems due to various
a) .	Explain th	ne term, 'pollution' with special reference to water pollution.
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b	Write two natural and two man-made sources of water pollution.
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(c)	Compare point sources and non-point sources of pollution and write one example of each type.
(d)	
(d <sub>.</sub>	
(d	Stating the sources of water pollution due to nutrients, briefly describe the phenomenon,
(d)	Stating the sources of water pollution due to nutrients, briefly describe the phenomenon, 'eutrophication' and its impact on water quality.
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	, 'bio-magnification', describe how toxic or hain with the help of suitable examples.	ganic pollutants can be bio-
magnified along the food ci	iam with the help of suitable examples.	
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(a) Relate the following cities	s/locations in the world to the type of polluti	ion that occurred and the
pollutant:	"" to the type of posturi	on that occurred and the
Fortunity	Type of pollution	Pollutant
Bhopal (India)		
Minamata Bay (Japan)		***************************************
Chernobyl (former USSR		
Chernody (torrier Obb)(	<i>J</i>	***************************************
(b) Briefly explain the disease	es caused by bacterial pathogens present in	polluted water
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	to three sources.
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(a)	Soil is an essential component of terrestrial ecosystems, sustaining all living organisms However, it is under threat and its quality is diminishing leading to low crop production.
	Defining the term, soil degradation, briefly explain the two processes, physical and chemical degradations.
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