THE OPEN UNIVERSITY OF SRI LANKA B.Sc. DEGREE PROGRAMME – LEVEL 5 -2012/2013 BOU 3100/BOE5100- ENVIRONMENTAL AND APPLIED MICROBIOLOGY ASSESSMENT TEST 1 (OPEN BOOK TEST)



10n –	Une (U1) hour Reg. No
- 27 th	July 2013 Time - 3.00 p.m 4.00 p.m.
	questions on this paper itself. This paper consists of four (05) questions and five
Fill	in the blanks with suitable word/words.
1.1	The process by which a water body acquires high concentrations of nutrients is
	called
1.2	technique .can be used to identify aerial
	microorganisms present in a known volume of air.
1.3	Among fungi present in the atmosphere, genuspredominate.
1.4	The main treatment processes involved in purification of drinking water for
	individual home supplies are,
	and
1.5	Two major sources of air borne microorganisms are
	and
1.6	Fossiled microbial mats known as were among the
	first indications of life on earth.
1.7	Microorganisms found at the water-air interface are called
	er all ages. Fill 1.1 1.2 1.3 1.4

	1.8	is the first step in municipal water treatment process.
	1.9	Some iron bacteria such as and
		are capable of transforming soluble iron compounds in water into insoluble forms.
	1.10	Two commonly used methods of secondary treatment of waste water are
		and
)2.	(a).	Lichen is a classical example of beneficial association between two partners. Who are they?
	(b).	What is the main function of each partner of this association?
		•••••••••••••••••••••••••••••••••••••••
		•••••••••••••••••••••••••••••••••••••••
	(c)	Given below is an agar plate obtained after inoculating two soil microorganisms and incubating in a laboratory to study the effect of antibiosis. Label the areas A, B and C in the diagram.

(d)	 Explain briefly the effect of this biological association of these two microorganisms in the above agar plate.
07 (-	Nilhat da vezu masa her food infontion?
03. (a	a). What do you mean by food infection?
b)	
	hospital and the doctor diagnosed that he is suffering from a food infection due to
	a meat curry he had for dinner on the previous day.
i.	What can be the food infection that the patient is suffering from?
ii	. Give a brief account on the nature of the causative organism.

	iii. What a	ire the measures can be take	n to prevent such an infection?	
04.	follow	ing material.	c name) responsible for the deterioration of the	
		erial	Organism	
	i. Metal pipe	es buried in soil		
	ii. Optical le	nses	***************************************	
*	iii. Rubber pi	pe	***************************************	
	iv. Painted w	all		
	v. Slats of w	ater cooling towers		
	(b). List fi	ve (03) resulting effects of d	ecaying wood mainly by fungi.	
	i			
	ii	***************************************		

05.	(a). What are the three (03) types of waste water of a community?					
	i					
	ii					
	iii					
	(b). What is the significance of Biological Oxygen Demand (BOD) in water pollution?					

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