

## **ම්** ලංකා විශාත වශ්වව්දාලෙස OPEN UNIVERSITY THE SRIENAND COURSE IN ENGLISH FOR SCIENCE

FINAL EXAMINATION 2009/201

EXAMINATION DIVISION

0328

Date:

06th July 2010

Time:

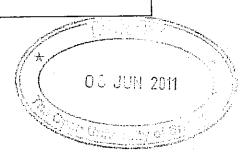
03 hours

Instructions:

Answer All Questions.

Index No:

Centre:



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Question No:			Marks Obtained	Maximum	
				15	
Part A	1		***************	13	
	2			15	
Part B	3			15	
•	4			20	
Part C	5		******	15	
	6			<u>20</u>	
	Total			100	
			======	_ = =	
Signature of Examiner		:			
Name		:			

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Par	t A -	Grammar and Vocabula	ry	* {:	••••••
Com	plete tl	ie sentences given below by u	nderli	ning <u>a, b, c,</u> or <u>d</u> .	***************************************
•					***************************************
1)	Vitar	nins may be either fat soluble	******	water soluble.	***************************************
	a)	and	c)	in	•••••••
	b)	or	d)	with	
2)	Dige	stion is the process in	c	omplex food molecules	***************************************
	are b	roken down into simpler molec	ules.		***************************************
	a)	the	c)	which	
	b)	an	d)	with	
3)	Оху	gen is vital impor	tance	to aerobic organisms in	***************************************
	any l	nabitat.			,
	a)	a	c)	of	
	b)	an	d)	with	
.)	Early	y humans had relatively little	impa	ct on	***************************************
	envi	ronment.			
	a)	there	c)	them	,
	b)	their	d)	those	
5)	Natu	ral deserts occur in both hot		cold regions.	
	a)	an	c)	and	
	b)	or	d)	not	
<b>5</b> )	Disp	osal of domestic and industrial	waste	has a very	
	large	e problem.		•	
	a)	resulted	c)	become	
	b)	occur	d)	developed	

1.

B

d)

will you

b)

won't you

	14)	Wet	grasslands are	of a tradition	onal farming sys	stem.	·
		a)	part	c)	area		•••••
		b)	section	d) ·	subject		· · · · · · · · · · · · · · · · · · ·
						-	1
	15)	The	lecturer	by the end of the	month.		,
		a)	advised to the st	udents to submit th	neir project		
		b)	advised the stude	ents to submit their	r project		
		c)	adviced to the st	udents to submit tl	neir project		
		d)	adviced the stude	ents to submit thei	r project		***************************************
				(15 1	narks)		••••••
2.	Fill i	n the l	blanks in the follo	wing passage wit	h suitable wor	ds. Use	••••••
	only	ONE v	word in each blank	space.			
	Many	y form	s of mining current	ly used including	river sand min	ing, sea	***************************************
	coral	minin	g and riverbed gen	n mining are envi	ronmentally da	maging.	
			is mined to (1).				
			urrent levels (2)			propriate	
			nave however led			serious	••••••
			tal impacts. Sand r				
			s, deepened the r				,
			oastal erosion arise				***************************************
			7) the				•••••
			by lowering				••••••
			sea water. Salt wa				
		•	son along the Kelan	, ,		·	***************************************
	wate		e points (12)				
	alon	-	(13)			affects	
			M				
			in the So			ntruding	***************************************
	salt v	water e	nters irrigation syste				
				(15	marks)		

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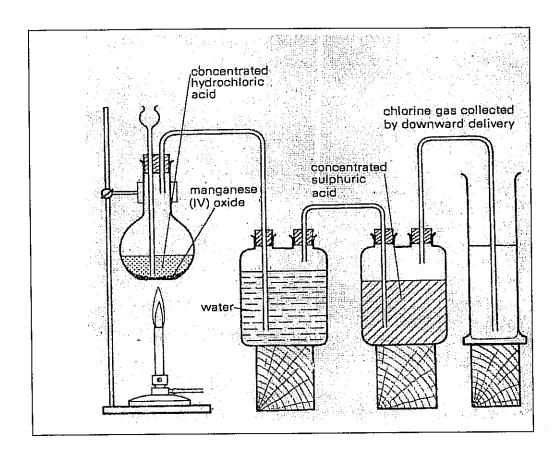
	writing, spelling, punctuation and grammar will be taken into	
consi	deration when awarding marks.	***************************************
	t B - Writing	***************************************
	ructions to carryout the following experiment is given below.	***************************************
	ime that you carried out the experiment and record it in Past	***************************************
Pass	ive verb form using relevant sequence markers.	***************************************
*		***************************************
	aration of Sulphur Dioxide	***************************************
a)	Put sodium sulphite in a round bottomed flask.	***************************************
b)	Add hydrochloric acid through a thistle funnel.	
c)	Warm the flask to complete the reaction.	***************************************
d)	Pass the gas through a wash bottle containing concentrated	***************************************
	sulphuric acid.	***************************************
e)	Collect the gas by downward delivery.	••••••••••••
	(15 marks)	
i)		
		•••••••
ii)		
	.,,	***************************************
		••••••
iii)	· · · · · · · · · · · · · · · · · · ·	
	***************************************	
iv)		
	***************************************	
v)	••••••••••••••••••••••••••••••••••••••	
		,

3.

## 4. Study the diagram given below and

- a) Name 5 equipment used
- b) A description of the process using
  - i) the given words in present passive verb form
  - ii) relevant sequence markers

### PREPARATION OF CHLORINE



List of Equipment				
i)				
ii)		•		
iii)				
iv)		•		
v)		•		

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	Description of Process	
		***************************************
1		***************************************
	(put)	***************************************
	_ ·	
2		
	(add)	*
		***********
3		***************************************
	(heat)	,,
4		***************************************
	(pass)	*************
	· ·	***************************************
5		***************************************
	(collect)	
		***************************************
	(20 marks)	4**********
		***************************************
Answ	vers should be written in complete sentences in your own words as	***************************************
	s possible. Marks will be deducted for grammar and spelling	***********
mista	kes	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	Part C - Reading	
	Part C - Reading	
Read		
Read	Part C - Reading through the following passage and answer the questions given below.	
	through the following passage and answer the questions given below.	
	through the following passage and answer the questions given below.  Most hotels are located in coastal areas to enable tourists to enjoy	
	through the following passage and answer the questions given below.	

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However unplanned tourism development without provision for sewage treatment and other environmental safeguards continue to damage the environment. This is illustrated by the contrast between Bentota, which is a planned tourist development and Negombo and Hikkaduwa where tourism has developed with little planning. A common waste treatment plant is now planned for the Bentota resort hotels. The Government of Japan has signed an Agreement to provide the infrastructure for coastal tourist hotels between Marawila and Galle. Planning for tourism development also reduces the social conflicts between tourism and other sectors. Fishermen in particular complain that their traditional rights of access to and use of the beach are hindered by tourist hotels.  Questions  1. Why are most tourist hotels located in coastal area?  (02 marks)  2. a) As mentioned in the passage, how does planned tourism differ from unplanned tourism?
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(03 marks)
b) What are the examples given to illustrate this point?
(02 marks)

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3	Is this statement 'True' or 'False'?	
	"Well planned tourism will benefit the society as a whole."	
		••••
	Support your answer with a sentence from the passage.	
	(02 marks)	
4	Why do fishermen complain about tourist hotels?	
		· · · · · · · · · · · · · · · · · · ·
	(02 marks)	
5	What do the following words refer to in the passage?	
		***************************************
	i) This in line 05	
	ii) their in line 12	***************************************
	(02 marks)	,
6.	Give a word / group of words which means the same as	
	j) <u>contrast</u> in line 05	
	ii) <u>hindered</u> in line 13	
		***************************************
		***********
	(02 marks)	***************************************

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# Read through the following passage and answer the questions given below.

Water pollution is becoming a major problem in certain urban and agricultural areas. The quality of water in irrigation tanks and other water bodies has been affected by the inflow of excess chemical fertilizer which promotes eutrophication and algal growth. Beira Lake presents an example of such eutrophication caused by algae thriving on the sewage flowing into the lake. Pollution of water sources such as paddy fields agricultural plots and plantations is difficult to control.

Faecal contamination of groundwater is reported from many districts, especially from <u>densely</u> populated urban areas and areas where the layer of soil is thin. The recent rapid industrial development has resulted in the release into the environment of untreated or inadequately treated effluents and even solid wastes thrown into canals, streams, rivers and other water bodies. Natural fluoride levels have been found to be high in certain areas of the Central Province, posing a serious threat to human health.

The ground water in nearly all urban areas is polluted and few users boil or otherwise sterilize their drinking water. Many of the wells are situated, close to toilets or are shallow with a relatively thin layer of soil, which is inadequate to filter the harmful microorganisms. Typhoid (enteric) fever and cholera are among the dangerous water borne diseases. Stagnant pools of water provide breeding places for mosquitoes which transmit malaria, filaria, dengue fever and encephalitis. The rapidly increasing level of surface water pollution is a serious health hazard. Poor storm water drainage systems in urban areas is an irritant and a health hazard.

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	Questions	•		
			******************	
1.	What is the main problem	mentioned in Paragraph 01?	***************************************	
÷	•		***************************************	
			•••••••••••••••••••••••••••••••••••••••	
		(01 mark)	***************************************	
2.	a) Name the main	reason for low water quality in tanks and	***************************************	
	water bodies:		***************************************	
			***************************************	
	ı		***************************************	
			••••••	
	b) Give an example	where this has happened?	•••••	
	:			
			***************************************	
		(03 marks)	•••••	
	• •			
3.	Which areas are more likely	y to face faecal contamination of water?		
			***************************************	
			***************************************	
٠,				
		(02 marks)	••••••••••••••••••••••••••••••••••••	
	to the second		***************************************	

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4.	What	are the bad effects on environment due to rapid industrialization in	
	the re		
	i)		
	ii)		***************************************
	iii)		,,
		(03 marks)	
5.	Give		
		(02 marks)	
6.	Is thi	s statement 'True' or 'False'?	
		"People in urban areas are aware of health hazards caused by	
		polluted water."	
		(01 mark)	
	Give	a sentence from the passage to support your answer.	
		(02 marks)	
7.	Why	is it dangerous to have stagnant pools of water?	
		(02 marks)	

		Use only	
8.	What do the following words refer to in the passage?		
:	a) which in paragraph 01 line 04		•••••••
	, <u> </u>		
	b) which in paragraph 03 line 22		
	(0	2 marks)	
9.	Give another word / group of words which means the	same as	
	i) <u>excess</u> in Paragraph 01 line 03	••••	•••••
			•••••
	ii) <u>densely</u> in Paragraph 02 line 09		
	(0	22 marks)	•••••
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