00406

OPEN UNIVERSITY OF SRI LANKA

COURSE IN ENGLISH FOR SCIENCE / B.ED LSE 1303

PART I

FINAL EXAMINATION 2010/2011

Date: **13th June 2011**

Time: **03 hours**

Index No:
Centre:

Instructions: **Answer All Questions.**

For Examiner's Use Only

Question No:		Marks Obtained	Maximum
Part A	1	.....	15
	2	.....	10
	3	.....	15
	4	.....	10
Part B	5	.....	19
Part C	6	.....	31
	Total	========	**100** ===

Signature of Examiner : .....

Name : .....

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Part A - Grammar and Vocabulary

1. **Complete the sentences given below by underlining a, b, c, or d.**

1) You will find the answers to the questions ..... page 22.

a) in c) on

b) at d) of

2) Animal and water wastes in lakes are decomposed ..... bacteria.

a) with c) by

b) in d) on

3) ..... is bad for your health.

a) Smoker c) Smokers

b) Smokes d) Smoking

4) The chemical industry is one of ..... manufacturing industries.

a) large c) the larger

b) the largest d) largest

5) You can't meet the Dean now, he is ..... the Vice - Chancellor.

a) at c) with

b) on d) in

6) The students worked ..... because they wanted to pass the examination the first time.

a) hard c) most hard

b) hardly d) harder

7) ..... our university days we have not seen each other.

a) Before c) Since

b) Till d) When

8) I don't have ..... to speak English at my work - place .

a) many times c) many chance

b) much chance d) any chances

9) Now scientists ..... to create new agricultural crop by genetic research.

a) they c) tried

b) are trying d) tries

10) Researchers in the automobile industry ..... to work on the development of an efficient, electrically powered automobile.

a) continue c) continuing

b) is continue d) are continuing

11) Do you know ..... ?

a) where the library is c) where is the library

b) where the library d) library is where

12) There are hardly ..... books on this subject in the library.

a) no c) a

b) no any d) any

13) Sodium Chloride is ..... in water.

a) a solution c) soluble

b) dissolve d) solubility

14) The oil ..... countries are rapidly developing their economies.

a) production
b) producing
c) product
d) producting

15) A new technique has been ..... to produce alcohol from garbage.

a) explained
b) come-out
c) established
d) developed

(15 marks)

2. **Fill in the blanks with given pronouns to make it meaningful. (use each pronoun only once)**

where, which whom who whose

1. Is that the new building ..... belongs to the Science Faculty?
2. The undergraduate ..... father is a writer donated several valuable books to the library.
3. Do you know those students ..... have gathered outside the lecture hall?
4. Please direct me to the examination branch ..... I could find out my final exam results.
5. To ..... should I address this letter of complaint?

(10 marks)

3. **Fill in the blanks in the following passage with suitable words. Use only ONE word in each blank space.**

Ozone, a gas found in the earth's atmosphere is concentrated in a layer in the atmospheric region known as the stratosphere. (1)..... layer performs a very useful function (2)..... it acts as a shield protecting (3)..... Earth against harmful ultraviolet radiation (4)..... the sun. The ozone layer not (5)..... absorbs the dangerous components (6)..... solar ultra – violet radiation known (7)..... UV – B, but it also prevents (8)..... lethal component known as UV-C (9)..... reaching the Earth. The other component (10)..... solar radiation UV –A reaches ground – level but it is considered harmless.

(15 marks)

4. **Fill in the blanks with the Passive Form of the Verb given in the brackets.**

a) Many modern buildings ..... in the earth quake. (destroy)

b) A new drug ..... to combat asthma in small children. (develop).

c) The bus fare ..... from next month. (increase).

d) Combustion takes place when substances ..... (burn).

e) A number of political prisoners ..... last month. (release).

(10 marks)

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Part B - Writing

Hand writing, spelling, punctuation and grammar will be taken into consideration when awarding marks.

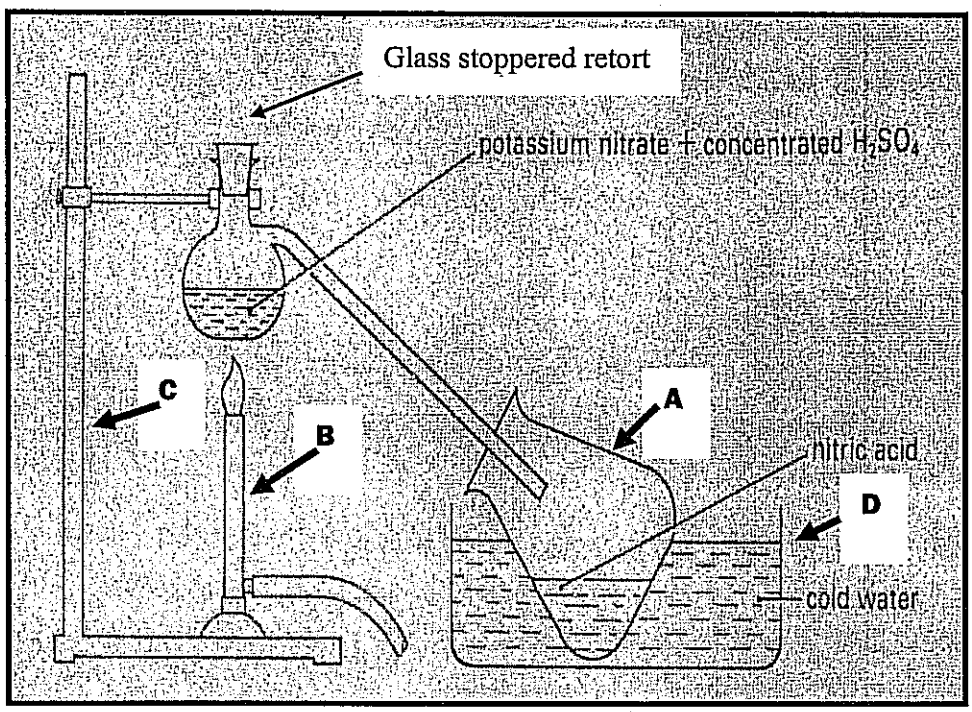
5. **Study the diagram given below and**

   a) **Name the equipment labelled A,B,C,D.**

   b) **Write a description of the process using**

      i) **the given words in present passive verb form**

      ii) **relevant sequence markers**



List of Equipment

a) .....

b) .....

c) .....

d) .....

(04 marks)

Description of Process

1 .....

.....(put)

2 .....

..... (heat)

3 .....

.....(pass)

4 .....

.....(collect)

(15 marks)

Part C - Reading

6. **Read through the following passage and answer the questions given below.**

Waste disposal in Sri Lanka is the most **crucial** problem faced by local authorities and, the Western Province alone has about 60 waste dumps. At present waste disposal is mainly in open dumps. A majority of **them** are located in low - lying marshy lands and abandoned paddy fields. Finding suitable sites for garbage disposal has become a major problem for Municipal Councils (MC s) in urban areas due to lack of suitable vacant land for **this purpose**.

The disposal of waste in open dumps pollutes the environment. Not only does it give an offensive **odour**, but pollutes the ground water and contaminates the wells in adjoining areas as well. The open dumps are not monitored and managed to control pollution or to **minimize** the adverse environmental impacts of decomposing waste. Due to the cost incurred, there is rarely any attempt to cover the waste, and a soil cover is applied only if the land is due for reuse or if there is a considerable public outcry. In addition to the dumpsites operated by the relevant Local Authorities, dumping of wastes is carried out haphazardly by private individuals along streets, in marshes or abandoned paddy fields while the Local Authorities make no move to control **such activities**. As the disposal of solid and liquid waste is primarily an urban problem, the development of urban growth centres could be expected to **aggravate** the problem of waste disposal in the future.

One of the most serious problems that exist today with regard to waste disposal is the lack of facilities for safe disposal of industrial hazardous wastes, although this is **currently** being looked into. Some of the industries that generate hazardous waste have on - site dumping

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facilities, but **these** are often poorly managed, and give rise to pollution in the area. Some industries sell oil and waste solvents for re-use, but often hazardous waste is disposed of with other municipal waste and dumped in open municipal dumps on vacant land or in nearby waterways. Dumping of hazardous waste in a haphazard manner is a matter of serious concern, and one that can cause severe environmental problems through contamination of surface and underground water bodies.

Questions

1. What is the main problem mentioned in Paragraph 01?

(02 marks)

2. Where are the waste dumps generally located?

(02 marks)

3. a) What is the major problem faced by the municipal councils in urban areas?

(02 marks)

b) Why?

(02 marks)

4. List the adverse effects of disposing wastes in open dumps?

i) .....

ii) .....

iii) .....

(03 marks)

5. Are the following statements **'True'** or **"False"**? Indicate the line number on which your answer is based.

i) Pollution has been controlled by monitoring and managing the open dumps.

True ☐ False ☐

Reason for answer: Line No. ....

ii) The waste dumped in open dumps is sometimes covered with a soil cover.

True ☐ False ☐

Reason for answer: Line No. ....

iii) Often all industrial wastes are dumped in open municipal dumps.

True ☐ False ☐

Reason for answer: Line No. ....

(06 marks)

6. a) How does haphazard dumping of industrial wastes cause problem?

(03 marks)

b) Why?

(02 marks)

7. What do the following words refer to in the passage?

a) **them** in paragraph 01 line 04

b) **this purpose** in paragraph 01 line 07

c) **such activities** in paragraph 02 line 18

d) **these** in paragraph 03 line 26

(04 marks)

8. Give another word / group of words which means the same as

a) **crucial** in paragraph 01 line 01

b) **odour** in paragraph 02 line 09

c) **minimize** in paragraph 02 line 11

d) **aggravate** in paragraph 02 line 20

e) **currently** in paragraph 03 line 24

(05 marks)