The Open university of Sri Lanka
Foundation Programme in Science -2006/2007
Level 1 - Final Examination
Course Code - PSF 1306 /PSE 1306

Date - 2006 4 (0 30

Time - 9.30 - 12 co noon

The Question paper consists of two parts - I and II

Answer all questions in part I and any three (03) questions from Part II

- Answers for the Multiple Choice Questions in **Part I** should be provided by placing a "X" in the relevant cage in the MCQ box provided.
- Answers for the structured essay question in part I should be written in the space provided in the question paper.
- At the end of the examination submit all MCQ questions with your answer script.

Index Number

MCO BOX

	MCC	S POY		
Q. NO.	a	b	С	d
1.1				
1.2				
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- 1.18 The end product Glycolysis, is
 - (a) fructose 1,6 diphosphate
- (b) glucose 6 phosphate
- (c) glyceraldehyde
- (d) pyruvate
- 1.19 What is a Nucleoside
- (a) A base + A sugar + A phosphate
- (b) A base + A sugar
- (c) A base + A phosphate
- (d) A sugar + A phosphate
- 1.20 During meiosis the chromosomes complete pairing and twisting during the
- (a) Leptotene stage

- (b) Zygotene stage (c) Pachytene stage (a) Diplotene stage



1 - B

i)	What is meant by the term"digestion of food"
ii)	Name the two different types of digestion that occur in animals.
iii)	Name the parts of the human alimentary canal.

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List the func	tions of HC	l in the h			
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Explain th	e four functi				
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vii)	Name the enzymes involved in digestion of the following food types in the human alimentary canal.					
	Carbohydrates					
	Protein					
	Lipid					
viii)	Name two regions in the human alimentary canal where carbohydrate Digestion occurs .					
ix)	Describe the process of digestion of carbohydrates in the two regions mentioned in (viii) above .					

PART II

Answer any three (03) questions

- (2) (a) Compare and contrast a prokaryotic cell and a eukaryotic cell.
 - (b) Briefly explain the process of mitosis that occurs in an animal cell.
- 3.) (a) Explain the term "reproduction"?
 - (b) Describe the main differences between asexual reproduction and sexual reproduction?
 - (c) Outline the Asexual reproductive methods found in invertebrates.
- 4) (a) Draw a fully labeled diagram of a human nephron and describe its structure.
 - (b) Briefly explain the process of urine formation in man
 - (c) List the functions of the human kidney
- 5) (a) Briefly explain "origin of life"?
 - (b) Describe the structure of DNA proposed by Watson and Crick
- 6) Write short notes on any three (03) of the following
 - a) Spermatogenesis
 - b) Binomial Nomenclature
 - c) Respiratory surfaces of invertebrate animals
 - d) Mitochondria