

21 DEC 2015

Dr

The Open University of Sri Lanka
Bachelor of Medical Laboratory Sciences (B.MLS)

EXAMINATION DIVISION

MLU1142- Anatomy and Physiology

Semester 1- Academic year 2015/2016

Final Examination - December 2015

Return your question papers with the answer sheets

Date: 21. 12. 2015

Duration – 02 hours

Time: 01.30 pm – 3.30 pm

Index No.....

Please read the following instructions carefully before you answer the paper.
(100 marks)

Part – A (50 marks)

- There are 30 multiple choice questions in this paper, each question with five responses. Each response has two choices, either True or False. Select the correct choice either True or False for each response.
- On the answer sheet, there are ten cages for each question. Those are placed in two rows (five in each row), indicating letters labeled from “a” to “e”.
 - If a response is correct, mark the relevant response in T row and if a response is incorrect mark the relevant response in F row
 - An example of a correctly answered question is given below.

Ex: 1. True or false regarding Innate Immunity

- Include 1st line of defense mechanisms
- Is antibody mediated
- Has no immunogenic memory
- Phagocytes are the key cells
- Highly specific for a particular antigen

T	a	b	c	d	e
F	a	b	c	d	e

Answer: T = True F = False

- One mark is allocated for correct response, and one mark will be deducted for incorrect response.
- Minus marks will not be carried to the next question.

Part – B (30 marks)

- Two structured essay questions are given. Both questions should be answered.

Part – C (20 marks)

- Two Essay questions are given. Only one essay question should be answered.

Good Luck!

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Bachelor of Medical Laboratory Sciences (B.MLS)
MLU1142- Anatomy and Physiology
Semester 1- Academic year 2015/2016
Final Examination
SEQ and Short Essay paper

21.12.2015

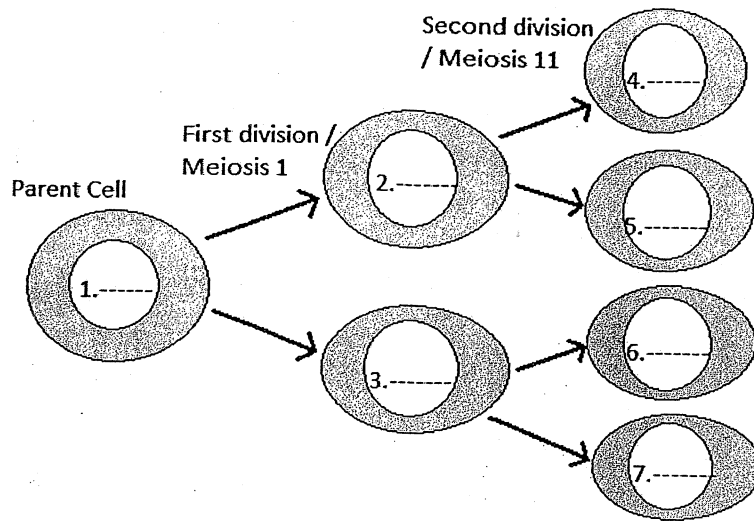
Time allowed – 01 hour

Part B – SEQ
(Answer all questions in Part B)

1.

1.1. Draw a labelled diagram to show microscopic appearance of the simple squamous epithelium. (25 marks)

1.2. The schematic diagram below shows the process of Meiosis. Complete the number of chromosomes in each cell. (15 marks)



1.3. Describe briefly the structure of the wall of an artery (30 marks)

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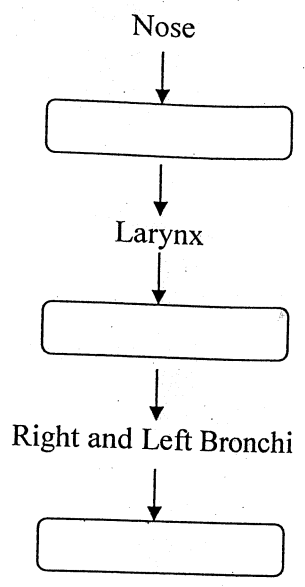
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1.4. Fill in the blanks of the human air-conducting system.

(30 marks)



2.

2.1. List three functions of the Liver.

(30 marks)

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2.2. Give three actions of insulin

(30 marks)

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2.3. Define the glomerular filtration rate (GFR) and list two factors that affect GFR
(40 marks)

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----- End of Part-B -----

Part C – Short Essay

(Only one question should be answered in Part C)

- 1.
 - 1.1 Describe the Valves of the human Heart. (50 marks)
 - 1.2 Briefly describe the factors that affect,
 - a. Gas exchange at the alveolar capillary membrane (20 marks)
 - b. Cardiac output (30 marks)

Or

- 2.
 - 2.1 Describe the receptor type and the effect of stimulation of sympathetic nervous system on the,
 - a. Bronchi (10 marks)
 - b. Heart (20 marks)
 - c. Intestine (20 marks)
 - 2.2. Describe the structural adaptations of the following for their functions.
 - a. Vagina (20 marks)
 - b. Uterus (20 marks)
 - c. Fallopian tubes (10 marks)

----- End of Part-C -----