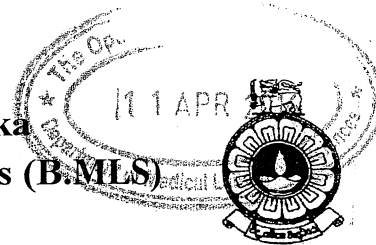


The Open University of Sri Lanka  
Bachelor of Medical Laboratory Sciences (B.MLS)

MLU2342- Clinical Biochemistry  
Academic year 2015/2016- Semester 02

No Book Test 02

*Return your question paper with the answer sheet*



Date: 31.03.2016

Duration – 1 1/2 hours

Time: 10.00 a.m. – 11.30 a.m.

Registration No.....

Please read the following instructions carefully before you answer the paper.

(100 marks)

**Part A: Multiple Choice Questions (20 marks)**

There are ten (10) multiple choice questions in this paper, each question with four responses. Encircle the most suitable response in the question paper itself.

**Part B: True/ False type Questions (10 marks)**

You are given ten (10) questions. Underline whether the given statement is 'True' or 'False' which is given in front of each question.

**Part C: Short Answer Questions (45 marks)**

You are given three (3) short answer questions. Each question contains four parts. Answer all the questions within given spaces.

**Part – D: Short Essay Question (25 marks)**

There is only one (1) short essay question. Answer the question within given answer book.

**Good Luck!**

**Part B: True/ False type Questions (10 marks)**

Answer all the questions.

1. CSF is formed at four ventricles of the brain. (True/ False)
2. The subarachnoid space holds 100mL to 150mL of CSF in the adult, in continuous turnover. (True/ False)
3. The pH of CSF is approximately similar to that of the blood plasma. (True/ False)
4. Uncontrolled bleeding diathesis is an indication for Lumbar puncture. (True/ False)
5. Qualitative tests are not performed on CSF. (True/ False)
6. In general, the cost for a rapid test is less than that for routine quantitative analysis for the same constituent. (True/ False)
7. Pericardial transudates are observed in cirrhosis. (True/ False)
8. A disease condition that could give rise to a transudate may include diseases in pancreas. (True/ False)
9. A pleural transudate may be observed in pneumonia. (True/ False)
10. Ascitic fluid may be a transudate in spontaneous bacterial peritonitis. (True/ False)

**Part C: Short Answer Questions (45 marks)**

Answer all the questions.

1. Regarding Cerebrospinal Fluid (CSF).

1.1. List three (3) Functions of CSF.

(3 marks)

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1.2. Fill the table with respect to composition of CSF.

(5 marks)

Characteristic/ component	Normal range
Appearance	
Total solid dissolved	
Specific gravity	
pH	
Cellular elements	

1.3. List three (3) excretory compounds normally found in CSF. (3 marks)

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1.4. List four (4) considerations that are important in processing, handling and transport of CSF. (4 marks)

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2. Regarding analysis of CSF.

2.1. List Five (5) features that can be observed in CSF when observing the appearance of the sample. (5 marks)

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2.2. List three (3) methods of testing CSF glucose levels. (3 marks)

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Registration No.....

2.3. Write the principles of two (2) of the methods listed in 2.2 above. (4 marks)

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2.4. Write a method and its principle to determine protein concentration of a CSF sample. (3 marks)

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3. Regarding blood and urine specimen collection.

3.1. List three (3) effects of prolonged tourniquet application during venepuncture. (3 marks)

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3.2. List four (4) preservatives used in preservation of blood specimens. (4 marks)

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3.3. List three (3) functions of preservatives that are used in urine specimen collection. (3 marks)

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3.4. List five (5) methods/preservatives used in preservation of urine specimens. (5 marks)

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**Short Essay Question (25 marks)**

1. Describe the steps in venepuncture procedure. (25 marks)

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