

The Open University of Sri Lanka
Department of Nursing
BSc Honours in Nursing Degree Programme- Level 5
NSU3117 –Basic Laboratory Sciences
Final Examination - 2018/2019

Return your question papers with the answer sheets

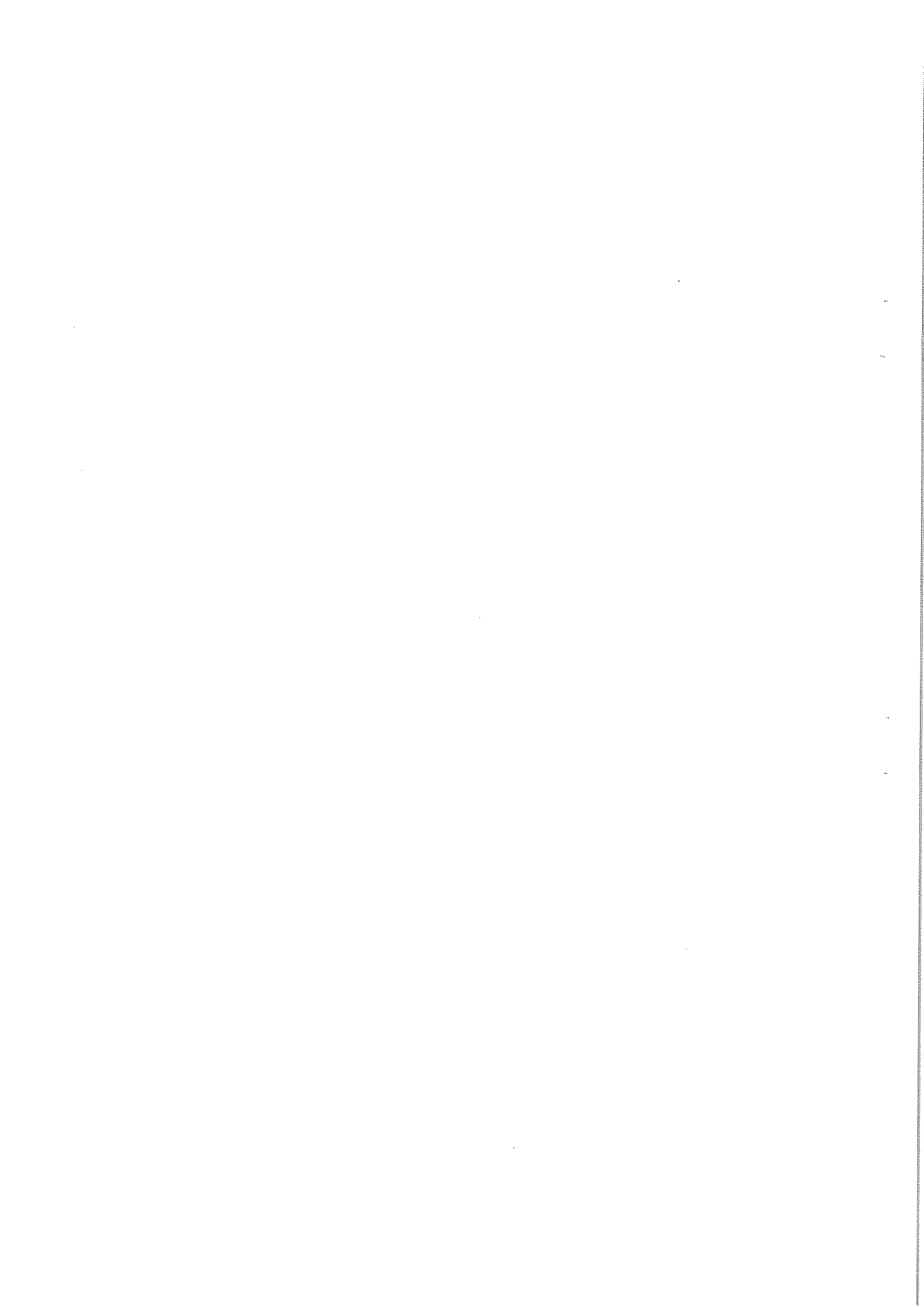
Date: 07.03.2019	Duration - 02 hours
Time: 09.30am- 11.30am	Index No.....

Part B – 10 True False questions

(10 Marks)

State whether following statements are “True” or “False” by **underlining** the relevant word given in brackets in front of the each statement.

01	When using a serological pipette, the last bit of volume in the tip must be blown out.	(True/ False)
02	Creatinine is freely filtered by the glomeruli and is not reabsorbed.	(True/ False)
03	Microalbuminuria can be detected by routine urine dipstick method.	(True/ False)
04	Haematuria and Haemoglobinuria can be differentiated by urine dipstick test.	(True/ False)
05	Urobilinogen can be present in normal urine samples.	(True/ False)
06	Fasting is not required to determine total cholesterol level.	(True/ False)
07	The tourniquet is used to increase venous fill during the blood collection.	(True/ False)
08	Vortex mixture is used to separate plasma and cellular components of blood.	(True/ False)
09	A routine OGTT requires five blood samples.	(True/ False)
10	Universal precautions are only applied for blood.	(True/ False)



Part C – Short Answer Questions

(30 Marks)

I.

1.1. List **six (06)** physical characters of urine that are examined in the urine analysis.

(03 marks)

I.

II.

III.

IV.

V.

VI.

1.2. Urine samples should be examined within 2 hours of collection. Give **three (03)** reasons for this.

(03 marks)

I.

II.

III.

1.3. Name **three (03)** methods that can be used to measure the specific gravity of urine in the laboratory?

(03 marks)

I.

II.

III.

1.4. List **three (03)** types of epithelial cells that can be found in urine specimens.

(03 marks)

I.

II.

III.

1.5. Give **three (03)** factors that should be considered when storing the reagent strips used for urine analysis. **(03 marks)**

- I.
- II.
- III.

2.

2.1. What are the blood collection tubes used for following tests? **(06 marks)**

Test	Blood Collection Tube
a) Fasting blood sugar	
b) Full blood count	
c) Lipid profile	
d) Serum electrolytes	
e) Coagulation tests	
f) Blood picture	

2.2. Mention the recommended anticoagulant concentration for coagulation tests? **(01 marks)**

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2.3. What is the proportion of blood to the liquid anticoagulant (above mentioned) ratio for coagulation tests? **(01 marks)**

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2.4. Name **three (03)** types of coagulation tests done in a clinical laboratory. **(03 marks)**

- I.
- II.
- III.

2.5. Mention **four (04)** improper blood drawing practices that affect the results of the coagulation tests. **(04 marks)**

- I.
- II.
- III.
- IV.

Part D – Structured Essay questions (30 Marks)

Q1.

1.1 A patient has been requested to do an Oral Glucose Tolerance Test (OGTT) and she wants to know about the prior preparation for the test. What instructions need to be given to the patient? **(05 marks)**

- I.
- II.
- III.
- IV.
- V.

1.2 Briefly explain the sample collection procedure to the patient. **(06 marks)**

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1.3 What are the diagnostic criteria for diabetes mellitus? **(04 marks)**

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Q2.

2.1 Name three liver enzymes that help in diagnosis of liver diseases. **(04 marks)**

I.

II.

III.

2.2 Briefly explain how above enzymes help in the diagnosis of liver disease. **(07 marks)**

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2.3 Name **three (03)** blood borne pathogens.

(02 marks)

I.

II.

III.

2.4 What is the purpose of using personal protective equipment?

(02 marks)

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