THE OPEN UNIVERSITY OF SRI LANKA
24 SEP 2020
EXAMINATION DIVISION
0115

THE OPEN UNIVERSITY OF SRI LANKA
FACULTY OF HEALTH SCIENCES
DEPARTMENT OF MEDICAL LABORATORY SCIENCES
ACADEMIC YEAR 2019/2020 – SEMESTER I

BACHELOR OF MEDICAL LABORATORY SCIENCES HONOURS
MLU4242/MDU6451– TRANSFUSION AND TRANSPLANTATION SCIENCE
FINAL EXAMINATION **DURATION: THREE HOURS**

DATE: 24th SEPTEMBER 2020 TIME: 09.30 AM – 12.30 PM

Part B: Structured Essay Questions (40 marks)

1. What is the best suitable blood component for following patients?

   a) A haemophila B patient with a joint bleed (2 marks)

   .....

   b) Thalassaemia major patient admitted for routine blood transfusion (2 marks)

   .....

   c) After giving red cell concentrates, the next component to be issued in the management of massive bleeding (2 marks)

   .....

   d) Haemophilia A with a joint bleed, when there is no factor VIII concentrate (2 marks)

   .....

   e) In postpartum hemorrhage, the initial blood product to issue (2 marks)

   .....

(Total 10 marks)

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2.

2.1 What are the three (03) essential samples for investigating a suspected ABO incompatible transfusion reaction?

Sample 1 ..... (1 mark)

Sample 2 ..... (1 mark)

Sample 3 ..... (1 mark)

2.2 What are the tests that you would perform using these 3 samples? (7 marks)

	Sample 1	*Sample 2*	*Sample 3*
Test 1			
Test 2			
Test 3			
Test 4			

(Total 10 marks)

3

3.1 What are the transfusion transmitted infectious agents that are tested in blood donations in Sri Lanka? (5 marks)

i. .....

ii. .....

iii. .....

iv. .....

v. .....

3.2 Name the infection marker, and its' detection method for each of the above. (5 marks)

	Infection Marker	Detection Method
1		
2		
3		
4		
5		

(Total 10 marks)

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4.

4.1. What are the types of blood bags use to prepare platelets? (2 marks)

i. .....

ii. .....

4.2 Write three (03) methods of platelet preparation. (1.5 marks)

i. .....

ii. .....

iii. .....

4.3. What are the parameters used for quality monitoring of a platelet unit? (2.5 marks)

i. .....

ii. .....

iii. .....

iv. .....

v. .....

4.4. What is the appropriate transport temperature of blood to prepare platelets? (1 mark)

.....

4.5 Write three (03) indications for platelet transfusion. (1.5 marks)

i. .....

ii. .....

iii. .....

4.6 Write three (03) common transfusion reactions related to platelet transfusions.

(1.5 marks)

i. .....

ii. .....

iii. .....

(Total 10 marks)

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Part C: Essay Questions (30 marks)

1. Discuss the platelet preparation methods available at the National Blood Transfusion Service in Sri Lanka. (15 marks)

2. Explain the donor safety criteria and recipient safety criteria included in the blood donor selection criteria guidelines. (15 marks)