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The Open University of Sri Lanka
06 FEB
Department of Medical Laboratory Sciences

Sample

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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
MDU6451 – TRANSFUSION & TRANSPLANTATION SCIENCE
NO BOOK TEST 01 DURATION: 1 ½ HOURS

DATE: 6th FEBRUARY 2020 TIME: 1.30 PM – 3.00 PM

REGISTRATION NO: .....

IMPORTANT INSTRUCTIONS/ INFORMATIONS TO CANDIDATES

- This question paper consists of **9 pages** with **10 Multiple Choice Questions (Part A), 04 Structured Essay Questions (Part B)** and **01 Essay Question (Part C).**
- Write your Registration Number in the space provided.
- Answer **ALL** questions.
- **Multiple Choice Questions (Part A):** Mark the best answer for each question in the answer sheet provided by placing a cross (X) in **INK** in the relevant cage. (Answers in pencil will **NOT** be marked)
- **Structured Essay Questions (Part B):** Write answers within the space provided.
- **Essay Question (Part C):** Answer the question on the provided papers.
- Do not remove any page/part of this question paper from the examination hall.
- Mobile phones and any other electronic equipment are **NOT** allowed. Leave them outside.

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To:

REGISTRATION NO: .....

Part A: Multiple Choice Questions (10 marks)

1. Who is the safest blood donor?
    a) Paid blood donor
    b) Directed blood donor
    c) Replacement blood donor
    d) Voluntary non remunerated regular blood donor

2. What is the accepted age limit for blood donation?
    a) 17 years to 60 years
    b) 18 years to 60 years
    c) 17 years to 55 years
    d) 18 years to 55 years

3. What is the accepted haemoglobin level for blood donation?
    a) 12.5 g/dl
    b) 12 g/dl
    c) 11.5 g/dl
    d) 11 g/dl

4. Who can be a blood donor?
    a) Person who had viral hepatitis A one year back
    b) Person who had a blood transfusion 6 months back
    c) Person who had a tattoo 8 months back
    d) Male person who had a sex with a male partner 8 months back

5. What is considered as permanent blood donor deferral criteria?
    a) IV drug users
    b) Person with multiple tattoos
    c) Having sex with a unknown partner
    d) Major surgery one year back

6. What is the shelf life for platelets?
    a) 7 days
    b) 10 days
    c) 5 days
    d) 3 days

7. Which one of the following components need ABO and Rh D compatibility and cross match before issue for patients?
    a) Red cell concentrates
    b) Platelet concentrates
    c) Fresh frozen plasma
    d) Cryo precipitate

8. Which one of the following blood components need Irradiation before transfusion?
    a) Red cell concentrates
    b) Platelet concentrates
    c) Buffy coat
    d) Fresh frozen plasma

9. What is the shelf life of red cell unit suspended in additive solution (SAGM)?
    a) 35 days
    b) 42 days
    c) 28 days
    d) 45 days

10. What is the shelf life of washed red cells?
    a) 6 hours
    b) 8 hours
    c) 12 hours
    d) 24 hours

REGISTRATION NO: .....

Part B: Structured Essay Questions (80 marks)

1.

1.1. Name four (4) blood products prepared from quadruple blood bag? (8 marks)

I).....

II).....

III).....

IV).....

1.2 State the storage condition of each blood component in question 1.1. (8 marks)

I).....

II).....

III).....

IV).....

1.3 Name two (2) special red cell concentrates? (4 marks)

I).....

II).....

(TOTAL 20 MARKS)

2.

2.1 What are the mandatory transfusion transmissible infections performed on donated blood? (10 marks)

I).....

II).....

III).....

IV).....

V).....

2.2. What are the characteristics of transfusion transmissible infections? (8 marks)

I).....

II).....

III).....

IV).....

2.3. What are the viral markers included in 4th generation ELISA test? (2 marks)

.....

(TOTAL 20 MARKS)

3.

3.1. Write three (03) methods of platelet preparation. (6 marks)

I).....

II).....

III).....

3.2. What are the parameters used for quality monitoring of a platelet unit? (10 marks)

I).....

II).....

III).....

IV).....

V).....

3.3. What is the appropriate transport temperature of blood to prepare platelets? (4 marks)

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(TOTAL 20 MARKS)

REGISTRATION NO: .....

4.

4.1. Write three (3) different methods use for haemoglobin estimation of blood donors. (6 marks)

I).....

II).....

III).....

4.2. Briefly explain the method use for cleaning the phlebotomy site of the donors arm. (8 marks)

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4.3 Write three (3) important steps implemented during the blood donation to maintain the safety of blood. (6 marks)

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(TOTAL 20 MARKS)

Part C: Essay Question (10 marks)

1. Discuss different screening assays use for testing transfusion transmissible infections of blood donors. (10 marks)

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NO BOOK TEST 01

DATE: 6th FEBRUARY 2020 TIME: 1.30 PM – 3.00 PM

ANSWER SHEET FOR PART A

1.	a	b	c	d
2.	a	b	c	d
3.	a	b	c	d
4.	a	b	c	d
5.	a	b	c	d
6.	a	b	c	d
7.	a	b	c	d
8.	a	b	c	d
9.	a	b	c	d
10.	a	b	c	d

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