



FACULTY OF HEALTH, APPLIED SCIENCES AND NATURAL RESOURCES

DEPARTMENT OF CLINICAL HEALTH SCIENCES

QUALIFICATION : BACHELOR OF MEDICAL LABORATORY SCIENCES				
QUALIFICATION CODE: 08BMLS	LEVEL: 6			
COURSE CODE: IMH621S	COURSE NAME: IMMUNOHAEMATOLOGY			
SESSION: JAUNARY 2025	PAPER: THEORY			
DURATION: 3 HOURS	MARKS: 100			

SECOND OP	PORTUNITY/SUPPLEMENTARY EXAMINATION PAPER	
EXAMINER(S)	Ms AUNE SEKETA-ILLARIUS	Ø.
MODERATOR:	Ms EDWIG SHINGENGE	

	INSTRUCTIONS
1.	Answer ALL the questions.
2.	Write clearly and neatly.
3.	Number the answers clearly.
4.	Non-programmable calculators allowed.

THIS QUESTION PAPER CONSISTS OF 4 PAGES (Including this front page)



SECTION A: SHORT QUESTIONS	[16 MARKS]
QUESTION 1	[10
Indicate whether Temporal or Permanent deferral should be applied in the following scenario	
1.1 History of viral hepatitis.	(1)
1.2 Antibiotic treatment for upper respiratory infection.	(1)
1.3 An over excited donor presenting with a smell of wine.	(1)
1.4 A young lady on anti-depressants.	(1)
1.5 A healthy male with positive history for Chagas disease.	(1)
1.6 Sickle cell disease under control.	(1)
1.7 A 49-year-old female who has been on high blood pressure treatment for the past 3 years	(1) s.
1.8 A young female on oral contraceptives for treatment of acne.	(1)
1.9 A recent visit to a malaria endemic area.	(1)
1.10 A male with recent ankle fracture forms a soccer match.	(1)
QUESTION 2	[6]
2.1 Identify any six elements of the quality management system	(6)
SECTION B: SHORT & LONG QUESTIONS	[44 MARKS]
QUESTION 3	[20
3.1 Describe five types of donations, include one advantage and one disadvantage of each.	(20
QUESTION 4	[4]
4.1 Discuss ANY two core principles of medical ethics.	(4)
QUESTION 5	[10
Write notes on the following terms:	
5.1 Partial D.	(2)
5.2 Bovine Serum Albumin.	(2)

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5.3 Dolichos Biflorus.					(2)
5.4 Erythracytapheres	is.				(2)
5.5 irradiated red blood cells.					
QUESTION 6					
6.1 Discuss five factors	that influence antigen	antibody reactions.			(10)
SECTION C: APPLICATION 7	ON BASED			[40 MARKS]	[16]
		the following headings	:		(16)
	Most likely Immunoglobin Class	Reaction temperature and method of detection	Transfusion reaction	Haemolytic Disease of the new-born	
7.1.1 Kell					
7.1.2 Lewis					F.6.1
QUESTION 8					[6]
An 18-year-old donatir	ng blood for the first tir	ne receives her blood g	roup results:		
ABO: O Rh: partial D					(2)
	would be issued to he	er as patient? Provide a	reason for your ans	wer	(4)
8.2 Is haemolytic disease of the new-born something for her to worry about in future? Provide reasons for your					(4)
answer.					
QUESTION 9					[10]
A doctor requires a pag	ediatric red cell concer	ntrate and a paediatric p	olatelet concentrate	for his patient.	
9. 1 Tabulate the cold (chain storage, shelf life	e and transport require	ments of the two pr	oducts mentioned above.	(6)
9.2 Identify indication	for each of the product	ts required for this pation	ent		(2)
- C		ion form, you discover condition with your ne		our neighbour's son. Are asons for your answer	(2)

QUESTION 10

10.1 A 26-year-old AB Rh negative patient presents at the hospital in active labour. Her records indicate that she has Anti D with a titre of 512. Her baby is born pale in colour. His cord blood results indicate that his red cell is strongly sensitized. His blood group is AB Rh positive, and he has high bilirubin levels. Discuss the treatment options for the baby and the mother.

[8]

(8)

THE END [100 MARKS TOTAL]

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