

10)

A.

C.

Blood bags are stored at:

14±2°C

8 ± 2°C

## HAEMATOLOGY AND BLOOD BANKING HSSC-II

## SECTION - A (Marks 10)

	<u> </u>								
Time	allow	red: 10 Minutes			Version Number 4 4 0 1				
Note:	Section – A is compulsory. All parts of this section are to be answered on the separately property of the Section of the Separately property of the Section – A is compulsory. All parts of this section are to be answered on the separately property of the Section – A is compulsory. All parts of this section are to be answered on the separately property of the Section – A is compulsory. All parts of this section are to be answered on the separately property of the Section – A is compulsory. All parts of this section are to be answered on the separately property of the Section – A is compulsory. All parts of this section are to be answered on the separately property of the Section – A is compulsory. All parts of this section are to be answered on the separately property of the Section – A is compulsory. All parts of this section are to be answered on the separately property of the Section – A is compulsory. All parts of this section are to be answered on the separately property of the Section of the								
Q. 1	Choose the correct answer A / B / C / D by filling the relevant bubble for each question on the OMR Answer Sheet according to the instructions given there. Each part carries one mark.								
	.,	Α.	Kidneys	В.	Brain				
		C.	Liver	D.	Heart				
	2)		vessels which take blood away	from the heart are	called:				
	,	A.	Arteries	B.	Veins				
		C.	Venules	D.	Capillaries				
	3)	Seru	m can be separated from:						
		A.	EDTA treated blood	B.	He <b>parinis</b> ed blood				
		Ç.	Clotted blood	D.	Citrated blood				
	4)	The	cells which are responsible for	defense against pa	rasitic infections are:				
		A.	Monocytes	B.	Eosinophils				
		C.	Erythrocytes	D.	Lymphocytes				
	5)	Diluti	ion factor for TLC is:						
		A.	20	B.	10				
		C.	200	D.	2000				
	6)	Whic	ch of the following is normal ha	emoglobin?					
		A.	Hb <b>H</b>	B.	Hb S				
		C.	Hb C	D.	Hb F				
	7)	Whic	th one is blood parasite?						
		A.	Entamoeba	B.	Plasmodium				
		C.	Trichomonas	D.	Giar <b>dia</b>				
	8)	Whic	ch one is <b>NOT</b> a blood group?						
		Α.	Α	В.	В				
		C.	0	D.	D				
	9)	Whic	ch of the following antibody is p	oresent in blood gro	up B?				
		A.	Anti-D	В.	Anti-B				
		C.	Anti-A	D.	Anti-A and Anti-B				

B.

D.

 $10 \pm 2$ °C

 $4\pm2$ °C

Time allowed: 2:20 Hours

Total Marks Sections B and C: 40

NOTE: Answer any

Answer any twelve parts from Section 'B' and any two questions from Section 'C' on the separately provided answer book. Use supplementary answer sheet i.e. Sheet-B if required. Write your answers neatly and legibly.

## SECTION - B (Marks 24)

- Q. 2 Answer any TWELVE parts. The answer to each part should not exceed 2 to 4 lines. (12 x 2 = 24)
  - (i) Explain improved Neubaur counting chamber.
  - (ii) Define leucopenia and lymphocytosis.
  - (iii) What are developmental stages for lymphocytes?
  - (iv) What is laboratory diagnosis for iron deficiency anemia?
  - (v) What is ESR, how is it measured?
  - (vi) What are factors affecting ESR?
  - (vii) What is malaria?
  - (viii) Enumerate clotting factors.
  - (ix) What is clinical significance of PT and APTT?
  - (x) What are indications for bone marrow trephine?
  - (xi) Enumerate sites for bone marrow aspiration.
  - (xii) Write down procedure for sternal aspiration in adults.
  - (xiii) What is FAB classification of acute lymphoblastic leukemia?
  - (xiv) What is Rh-typing? How is it done?
  - (xv) Name blood transfusion reactions.
  - (xvi) Enumerate different components prepared in blood bank.

## SECTION - C (Marks 16)

Note:	Attempt any TWO questions. All questions carry equal marks.				
Q. 3	What is RBC count? Write down its requirements, procedure, calculations and normal values.				
Q. 4	What is X-match? Explain 'major X-match' in detail.				
Q. 5	Write notes on any two of the following:				
	a.	Pernicious anemia	(04)		
	b.	Aplastic anemia	(04)		
	C.	Intrinsic pathway of coagulation	(04)		