2024

MEDICAL LABORATORY TECHNICIAN/MEDICAL LAB AND MOLECULAR DIAGNOSTIC TECHNOLOGY

Paper: MHS0200304

(Clinical Pathology and Haematology)

Full Marks: 45
Time: 2 hours

The figures in the margin indicate full marks for the questions.

1.	Fill	in the Blanks:	1x5=5
	a)		
	b)	What is the most common. haemoglobin variant in individuals with sickle	cell disease
	-1	The arrange of black in steel in language	
	c)	The presence of blood in stool is known as The erythrocyte sedimentation rate (ESR) is a common blood test used to	•
	uj	detect in the body.	
	e)		gerated at
	۷,	temperature.	soratoa at
		tomporature.	
2.	Ans	swer the following in brief: (Any Five)	2x5=10
		Name the five main types of leukocytes found in a differential leukocyte coun	
		Advantages of Romanowsky stain.	- ().
	•	Write about semen liquefaction.	
	•	·	
		Explain G6PD deficiency.	
	-	Principle of Leishman's stain.	•
		Write any two functions of haemoglobin. Principle of Erythrocyte sedimentation rate.	•
	6) h)	Name two preservative for sputum?	
		Define osmotic fragility?	
	j)	Define advantage of automation in haematological technique?	
_		c	5x4=20
3.		swer any four of the following: Differentiate between transudate and exudates?	3A4-20
		The state of the s	
	-1	Discuss the procedure of boild mail-ow aspiration and biopsy?	
		vvv : 1, and made on plelife linds	
	e)	Define clinical significance of sputum? Describe the composition of cerebrospinal fluid and its function?	
	f) g)	Discuss briefly about Automation in nacinatology?	
	h)) What is semen analysis and What ctoes it measure?	
	•		10x1=10
	4. A	inswer any one from the following:	
	;	a) Explain the different types of haemoglobin variants? Discuss changes in red blood	i ceii snape os
		strncture due to various haemoglobin variants?	
	1	b) Describe in details about Macroscopic examination of stool?	
		a) Describe in details about macroscopic organisation of CCFO	
	(c) Explain the formation and clinical significance of CSF?	
	C	d) Explain how does the body produce urine? Name two preservative of urine?	
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