PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2022

(Fifth Semester)

Branch - ZOOLOGY

<u>DISCIPLINE SPECIFIC ELECTIVE – I</u> <u>MEDICAL LABORATORY TECHNOLOGY</u>

•	Time: Three Hours	N	 Iaximum: 75 Marks		
	Ar	CTION-A (10 Marks) nswer ALL questions			
	ALL questi	ons carry EQUAL marks	$(10 \times 1 = 10)$		
1	A Histopathology lab will de	al with			
	(i) Cells	(ii) Tissues			
	(iii) Organs	(iv) Organ System			
2	What is the temperature which is maintained by the Freezers in the pathology labs?				
	(i) 10°C − 15°C	(ii) 0°C – 10°C			
	(iii) -10°C − -60°C	(iv) -100°C	•		
3	What solution is used to maintain sterility in labs?				
	(i) Sodium Chloride	(ii) Sodium Hypochlo	rite		
	(iii) Sodium Cyanide	(iv) Sodium Sulphate			
4	Which device is used to separate the components of blood?				
	(i) auto analyzer	(ii) centrifuge			
	(iii) hematocrit	(iv) magnetic stirrer			
_	TT				
5	How are the blood cells and p	-			
	(i) hematocrit	(ii) hot plate			
	(iii) centrifuge	(iv) water bath			
6	The cells related to blood are collectively called as				
	(i) oestoblast cells	(ii) condrocyte cells			
	(iii) hematopoietic cells	(iv) megakaryocytes			
7	The best and safest method of sterilization is				
,	(i) Autoclaving		**************************************		
	(iii) Flaming	(ii) Immersion in chem (iv) Boiling	icai germicide		
	(m) I mining	(W) Donning			
8	Where is the liver situated in the body?				
	(i) Beside the pancreas	(ii) Beside heart			
	(iii) Above kidney	(iv) Above stomach			
9	Bile salts acts as activator of v	which commence			
	(i) Lipase	(ii) Pepsinogen			
	(iii) Pancreatic lipase	(iv) Trypsin			
	-	• • •			
10	How many types of blood grou				
	(i) 1 (ii) 2	(iii) 3 (iv) 4			
	SECT	ION - B (35 Marks)			
	Ansv	wer ALL Questions			
		ons Carry EQUAL Marks (5	$5 \times 7 = 35$)		
11		ation methods used in clinica	•		
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Define Microscope. Write the principle, operating procedure and

application of microscope.

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12	a	Cont Comment on PCV and its application. OR
	b	Give an account on various methods used for the estimation of Haemoglobin.
13	a	Write a detailed account on Sickle Cell Anaemia. OR
	b	Enumerate the ABO blood group system and determination of blood grouping.
14	a	Write about chemical examination of urine. OR
	b	Explain the various methods of sputum collection.
15	a	Give an account on glucose tolerance test. OR
,	b	Describe about faecal analysis.
		SECTION - C (30 Marks)

Answer any THREE Questions ALL Questions Carry EQUAL Marks (3 x 10 = 30)

- 16 Describe the basic laboratory rules that must be followed in the CLT.
- Explain in detail about the collection and transport of any two clinical specimen. 17
- What is Hemophilia? Explain the mechanism, complication and treatment of 18 Hemophilia.
- 19 Write an essay on semen analysis.
- 20 Explain the various methods of liver function test.

Z-Z-Z

END