

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2025  
(Fifth Semester)

Branch – ZOOLOGY

**MAJOR ELECTIVE COURSE – I : MEDICAL LABORATORY TECHNOLOGY**

Time: Three Hours

Maximum: 75 Marks

**SECTION-A (10 Marks)**

Answer ALL questions

ALL questions carry EQUAL marks

(10 × 1 = 10)

Module No.	Question No.	Question	K Level	CO
1	1	Which anticoagulant is commonly used in CBC test a) Heparin b) Sodium citrate c) EDTA d) Oxalate	K1	CO1
	2	Infer that What does the scope of MLT Course a) Only clinical diagnosis b) Laboratory testing and analysis of biological samples c) surgical procedures d) medical research	K2	CO2
2	3	What is the function of centrifuge in a laboratory? a) Measure hemoglobin b) Separate components of blood c) Detect infection d) Count RBC	K1	CO1
	4	Which stain is used for identifying malaria parasite? a) Wright's stain b) Leishman's stain c) Gram stain d) Ziehl-Neelsen stain	K2	CO2
3	5	Which lab specimen is used to produce Monoclonal antibodies a) Frog b) Mice c) Monkey d) Horse	K1	CO1
	6	Illustrate that the Sickle cell anemia is an example of what type of disorder a) Infectious disease b) Genetic disorder c) Nutritional deficiency d) syndrome	K2	CO2
4	7	Select the correct preservative of urine sample for several days a) Thymol b) Ziehl-Neelsen stain c) Leishman Or Wright's stain d) Methylene blue	K1	CO1
	8	Which test is used for the detection of sugar in urine? a) Benedict's test b) Biuret test c) Sudan III test d) Molisch test	K2	CO2
5	9	Find the normal range of Urobilinogen in 24 hrs Urine is _____ a) 4mg b) 5mg c) 8mg d) 9mg	K1	CO1
	10	Relate the following: green colour stool denotes a) Infection b) Ingestion of Calomel c) Diseases d) Syndrome	K2	CO2

Cont...

**SECTION - B (35 Marks)**

Answer ALL questions

ALL questions carry EQUAL Marks

 $(5 \times 7 = 35)$ 

Module No.	Question No.	Question	K Level	CO
1	11	a) Build a detailed note on sterilization methods.	K3	CO3
		[OR]		
		b) Select any 2 types of microscopes and explain it in detail.		
2	12	a) Examine the WBC count and platelet count.	K4	CO4
		[OR]		
		b) Categorize the steps of collection methods in Hematology.		
3	13	a) Examine the types of blood groups and explain about transfusion technology.	K3	CO3
		[OR]		
		b) Classify the genetic abnormalities in blood.		
4	14	a) Examine the collection and analysis of urine sample.	K4	CO4
		[OR]		
		b) Inference the steps of collection methods of CSF.		
5	15	a) Examine about the Liver Function test.	K4	CO4
		[OR]		
		b) Inference about Glucose Tolerance Test .		

**SECTION -C (30 Marks)**

Answer ANY THREE questions

ALL questions carry EQUAL Marks

 $(3 \times 10 = 30)$ 

Module No.	Question No.	Question	K Level	CO
1	16	Examine and give detail note on maintenance of records in MLT.	K4	CO4
2	17	Determine the Bleeding and clotting time.	K5	CO5
3	18	Explain about collection of semen and its analysis.	K4	CO4
4	19	Classify and analyze the types and methods of sputum collection.	K4	CO4
5	20	Explain about blood urea and fecal analysis.	K5	CO5