

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2024
(Fifth Semester)

Branch – ZOOLOGY

MAJOR ELECTIVE COURSE – I :

MEDICAL LABORATORY TECHNOLOGY

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(5 x 1 = 5)

- 1 Who is the father of medical laboratory technology?
(i) Louis Pasteur (ii) Robert Hook
(iii) Alexander Fleming (iv) Antonie van Leeuwenhoek
- 2 Which among the following is normal clotting time of blood?
(i) 1-5 minutes (ii) 2-8 minutes
(iii) 4-7 minutes (iv) 10-15 minutes
- 3 What is the universal donor blood type?
(i) A^{+ve} (ii) O^{+ve}
(iii) B^{-ve} (iv) O^{-ve}
- 4 Brown coloured urine is an indication of
(i) normal (ii) rehydration
(iii) dehydration (iv) hydration
- 5 Choose the condition in which higher level of blood glucose.
(i) diabetes mellitus (ii) diabetes insipidus
(iii) anemia (iv) thyroidism

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

- 6 a. Summarise the parts of compound microscope.
OR
b. What is centrifuge? Write its application.
- 7 a. Narrate the differential leucocyte count.
OR
b. Analyze the PCV.
- 8 a. Classify the types of anemia.
OR
b. Explain the Coomb's test.
- 9 a. Show the physical examination of Cerebrospinal fluid.
OR
b. Describe the analysis of semen.

Cont...

- 10 a. Analyze the liver function tests.
OR
b. Outline the feecal analysis during the diseased condition.

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks (5 x 6 = 30)

- 11 a. Outline different types of sterilization methods.
OR
b. Discuss the safety measures to be followed in the medical laboratory.
- 12 a. Summarize the Hb estimation methods.
OR
b. Explain the method and calculation of ESR.
- 13 a. Examine the ABO blood grouping.
OR
b. Enumerate the hemophilia.
- 14 a. Infer the physical and biochemical tests of urine.
OR
b. Highlight the collection of sputum and it's analysis.
- 15 a. Analyze the urea in blood and its significance.
OR
b. Discuss on examination of cholesterol in blood.

Z-Z-Z

END