

**FOR THE CANDIDATES ADMITTED
DURING THE ACADEMIC YEAR 2020 ONLY**

REG.NO

**NGM COLLEGE (AUTONOMOUS) POLLACHI
END-OF-SEMESTER EXAMINATIONS: DECEMBER-2022**

B. Sc-ZOOLOGY**MAXIMUM MARKS: 70****V SEMESTER****TIME: 3 HOURS**

**PART III
MEDICAL LABORATORY TECHNIQUES**

SECTION – A (10 X1 = 10 MARKS)

**ANSWER THE FOLLOWING QUESTIONS
MULTIPLE CHOICE QUESTIONS**

(K1)

1. The temperature should be maintained in the Autoclave as _____
a) 101⁰ C b) 111⁰ C c) 121⁰ C d) 131⁰ C
2. In blood collection tube, the gray top indicates to analyse the _____
a) Glucose level b) Genetics c) Haematology d) Chemical test
3. Brownish – black colour of the urine is due to _____
a) Pseudomonas infection b) Porpyrins
c) Alkaptonuria d) Methylene blue
4. The stain which is used to detect living fungi in sputum specimen _____
a) Eosin stain b) Hematoxylin stain
c) Periodic Acid Schiff stain d) Wright stain
5. The hormone present in Urine during early pregnancy time _____
a) Oestrogen Hormone b) Human Chorionic Gonadotropin Hormone
c) Adreno Cortico Tropic Hormone d) Progesterone Hormone

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES (K2)

6. Esbach test
7. DUKE's method
8. Occult blood test
9. Bronchoscopy
10. Cryobanking

(CONTD....2)

SECTION – B**(5 X 4 = 20 MARKS)****ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. (K3)**

11. a) Write down the working principle and analysis of results in Urinometer.
(OR)
b) Summarise the principle and applications of Albumino meter.
12. a) What is Wintrobe salt? Explain their mechanism of action.
(OR)
b) Describe the routine Glucose Tolerance Test methods & inference of results.
13. a) Brief the chemical dip stick test in Urine analysis.
(OR)
b) Elucidate the process collection and preservation methods and testing of faeces for Occult blood.
14. a) Illustrate the microscopical examination of sputum.
(OR)
b) Explain the staining techniques of Sperm.
15. a) Describe the Rapid Immunological method of pregnancy test.
(OR)
b) Write short notes on Gene Banking.

SECTION – C**(4 X 10 = 40 MARKS)****ANSWER ANY FOUR OUT OF SIX QUESTIONS.****(16TH QUESTION IS COMPULSORY AND ANSWER ANY THREE QUESTIONS FROM Q.NO: 17 TO 21)****(K4) OR (K5)**

16. Illustrate the basic structure of a laboratory.
17. Summarise the code of conduct for laboratory personnel.
18. Outline the stages, methods and applications of Erythrocyte Sedimentation Rate.
19. Elaborate the microscopic examination of stool and the presence of disease causing microorganisms.
20. Discuss the physical and microscopic examination of semen.
21. Explain the causative agents, symptoms and treatment of any two Sexually Transmitted Diseases.