

**2103000205021055**  
**EXAMINATION FEBRUARY-MARCH 2024**  
**BACHELOR OF SCIENCE (FIFTH SEMESTER)**  
**BIO SCIENCE (MICROBIOLOGY) PAPER - X**  
**(BS-505-CLINICAL BIOCHEMISTRY)-LEVEL 2**

[Time: As Per Schedule]

[Max. Marks: 50 ]

**Instructions:**

**1. Fill up strictly the following details on your answer book**

- a. Name of the Examination: **BACHELOR OF SCIENCE (FIFTH SEMESTER)**
  - b. Name of the Subject: **BIO SCIENCE (MICROBIOLOGY) PAPER - X (BS-505-CLINICAL BIOCHEMISTRY)- LEVEL 2**
  - c. Subject Code No: **2103000205021055**
2. Draw neat and clean diagram wherever necessary.  
3. Figures to the right indicate full marks of the question.  
4. All questions are compulsory.

Seat No:

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Student's Signature

**Q.1 Multiple choice questions (MCQs):**

**8**

1. A urine sample collected by \_\_\_\_\_
  - a. Lab technician
  - b. Nurse
  - c. Physician
  - d. None
2. Sputum examination include \_\_\_\_\_
  - a. Microscopic examination
  - b. Macroscopic examination
  - c. Physical examination
  - d. All
3. Normal sperm count value is \_\_\_\_\_
  - a. 6-12 million/ml
  - b. 60-120 million/ml
  - c. 600-1200 million/ml
  - d. None
4. An important PFT is \_\_\_\_\_
  - a. Amylase estimation
  - b. SGOT estimation
  - c. SGPT estimation
  - d. All

5. \_\_\_\_\_ is detected by Sulphosalicylic acid test.
- a. Bile salt
  - b. Protein
  - c. Ketones
  - d. Blood
6. Which of the following is useful cardiac function test?
- a. SGPT estimation
  - b. Creatin phosphokinase estimation
  - c. Alkaline phosphatase estimation
  - d. All
7. Creatinine estimation is an example of \_\_\_\_\_
- a. PFT
  - b. CFT
  - c. LFT
  - d. KFT
8. Which of the following is not an example of LFT, except \_\_\_\_\_?
- a. Glucose estimation
  - b. Billirubin estimation
  - c. Lipid estimation
  - d. Urea estimation

**Q.2 [A] Answer as directed:**

**4**

1. Define - Glycosuria.
2. State the any two normal findings of CSF sample.
3. Enlist the criteria for physical examination of stool.
4. Give any two example of PFT.

**[B] Write short note on Any Two**

**10**

1. Clearance Test.
2. Classification of CPT.
3. Types of urine specimens.

**Q.3** What is billirubin? How it is produced? How estimation of serum billirubin is helpful for diagnosis of different kind of jaundice. **14**

**OR**

**Answer the following.** **14**

1. Write a detailed account on Clearance test
2. Describe in brief microscopic examination of urine.

**Q.4** Describe in brief how microscopic examination of semen is useful to evaluate male infertility. **14**

**OR**

**Answer the following questions.** **14**

1. Write a note on routine analysis of sputum sample.
2. Describe in detail LP technique.

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