



2025

5th Semester Examination (CCFUP : NEP)

BMLT

Paper : MJ 9-T (Single Core Major)

**[Clinical Pathology-2
(Advanced Urine and Stool Pathology)]**

Full Marks : 40

Time : Two Hours

The figures in the margin indicate full marks.

*Candidates are required to give their answers
in their own words as far as practicable.*

Group - A

Answer any *five* questions : $2 \times 5 = 10$

1. State the clinical significance of low GFR.
2. Distinguish between Oliguria and Anuria.
3. What is the clinical significance of detecting Bence Jones proteins in urine?
4. Define orthostatic proteinuria.
5. Define microalbuminuria and state why it is screened in

P.T.O.



diabetic patients.

6. Mention the clinical significance of Leukocyte Esterase in a urine dipstick test.
7. Write the significance of Charcot-Leyden crystal in stool.
8. Write the name of two concentration techniques used for the detection of Ova and Parasites (O&P) in stool.

Group - B

Answer any *four* questions : $5 \times 4 = 20$

9. Write the principle and procedure of the Creatinine Clearance Test (CCT). Write the factors affecting CCT. 2+3
10. Discuss the procedure of detecting myoglobinuria. State the significance of leukocyte esterase test. 3+2
11. Briefly describe the types of proteinuria based on their origin (Prerenal, Renal, and Post-renal).
12. Describe the microscopic appearance and clinical importance of Sulfonamide crystals in urine.
13. Discuss the role of the Oral Ammonium Chloride Test in assessing renal tubular function.

(3)

14. Outline the stool analysis findings and screening methods for Colorectal Cancer.



Group - C

Answer any *one* question : $10 \times 1 = 10$

15. Describe the various types of formed elements (Bacteria, Yeast, Fat, and Spermatozoa) while found in a urine sediment and state their clinical significance. Discuss the characteristic urinary features of Nephrotic Syndrome.

7+3

16. Write in detail the process of Stool Culture for the detection of enteric pathogens. List two culture media commonly used for this purpose. Describe the collection procedure of pinworm egg. Define pyelogram. 4+2+2+2
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