

Q.P. Code: 213001**Reg. no.:****Second Professional MBBS Degree Supplementary Examinations
June 2024****Pathology - Paper I****(General Pathology and Hematology including Clinical Pathology)****Time: 3 Hours****Total Marks: 100**

- Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers
- Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together • Leave sufficient space between answers
- Draw table/diagrams/flow charts wherever necessary

Long Essays**(2x15=30)**

1. A 72-year-old gentleman with long standing Diabetes mellitus presented with frequent urination and dysuria since a week, followed by fever of 101.8° F. On examination, his face appeared flushed, heart rate was 102/min and BP was 88/60mm Hg. CBC showed neutrophilic leukocytosis. He was started on antibiotics, but his urine output decreased to 50ml/24h by 2nd day.
 - a) What is your provisional diagnosis and cause of death
 - b) Explain the pathogenesis of this condition
 - c) Add a note in the gross and microscopic changes in the kidney in this condition**(3+6+6)**
2. A 45-year-old lady with menorrhagia for 5-6 months presented with fatigue and loss of appetite. Lab investigations showed Hb - 9gm% and peripheral smear showed small RBCs with enhanced central pallor
 - a) What is the likely diagnosis
 - b) What lab investigations would confirm your diagnosis
 - c) Describe the peripheral smear findings with a labelled diagram
 - d) List other causes that can lead to this condition**(2+5+5+3)**

Short essays**(5x8=40)**

3. Role of complement system in inflammation
4. Oncogenic DNA viruses
5. Differences between tuberculoid and lepromatous leprosy
6. Complications of blood transfusion
7. Immune thrombocytopenic purpura

Short answers**(5x4=20)**

8. Morphologic features in Trisomy 21
9. List FOUR tumor markers and their associated malignancies
10. Define metaplasia and give examples
11. Peripheral blood picture in acute myeloid leukemia
12. CSF findings in pyogenic meningitis

Objective type questions**(10x1=10)**

13. Write the chromosomal abnormality in Chronic myeloid leukemia
14. Name the condition associated with Bence-Jones proteinuria
15. Name ONE special stain for fat
16. Name ONE cancer that commonly spreads by hematogenous route
17. Name any ONE hemoparasite
18. Hypersegmented neutrophils are seen in ----- anemia
19. ----- necrosis is seen in Tuberculosis
20. Name the type of cells that replicate continuously
21. Heart failure cells are seen in -----
22. Deficiency of dietary niacin leads to -----
