

Reg. No.....

**Second Year B.Sc Optometry Degree Regular/Supplementary Examinations
January 2024
Pathology & Microbiology
(2016 Scheme)**

Time: 3 hrs **Max. Marks: 80**

- *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*
- *Write Section A and Section B in separate answer books. Do not mix up questions from Section A and Section B*

QP Code: 223013

Section A - Pathology

Marks: 40

Essay: **(10)**

1. Define Shock. Types of shock and pathogenesis of septic shock (1+3+6)

Short Notes: **(3x5=15)**

2. Write the differences between Apoptosis and Necrosis
3. Draw and explain the metastatic cascade of tumour spread
4. Peripheral smear picture of chronic myeloid Leukemia

Answer Briefly **(5x2=10)**

5. Urinary sediments
6. Gross and microscopy of Retinoblastoma
7. List the morphological types of acute inflammation
8. Haemophilia A
9. Rickets

One Word Answer **(5x1=5)**

10. List two common causes of proteinuria
11. List two conditions with high ESR
12. What are the components of granuloma
13. List two sites where pathological calcification occurs
14. Name the commonest fixative used for surgical specimens in histopathological laboratory

(P.T.O)

Essay (10)

1. Classify hypersensitivity reactions. Describe in detail about Type I hypersensitivity reaction. (2+8)

Short Notes (3x5=15)

2. Pathogenic free living amoebae.
3. Fungal keratitis.
4. Classify chemical disinfectants. Add a note on chemical disinfectants used in the hospital.

Answer Briefly (5x2=10)

5. Methicillin resistant staphylococcus aureus.
6. Universal precautions.
7. Anaerobic culture methods.
8. TRIC agents.
9. Immunoglobulin M.

One Word Answer (5x1=5)

10. Name two nematodes that can affect the type.
11. Name two methods of dry heat sterilization.
12. Name two gram positive bacilli.
13. Name two live attenuated vaccines.
14. Name two selective media.
