

Reg. No.....

**Second Year B.Sc Optometry Degree Regular/Supplementary Examinations
November 2025**

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 Neoplasia. Describe in detail mode of spread of malignant tumours. Mention the gross and microscopic differences between Benign and malignant tumours (2+4+4)

Short Notes:

(3x5=15)

2. Vascular events in inflammation
3. Classification of Anemia
4. Differentiate between Apoptosis and Necrosis

Answer Briefly

(5x2=10)

5. Primary Tuberculosis
6. Granulation tissue
7. Fate of Thrombus
8. Retinoblastoma
9. Leukemoid reaction

One Word Answer

(5x1=5)

10. Write TWO causes of granulomatous inflammation
11. Name TWO ocular parasites
12. Write TWO causes of Aplastic anemia
13. Give TWO causes of metastatic calcification
14. Write TWO causes of proteinuria

(P.T.O)

QP Code: 224013

Section B: Microbiology

Marks: 40

Essay

(10)

1. Name four common agents causing bacterial keratitis. Write in detail about specimen collection, transport, processing and lab diagnosis of bacterial keratitis (2+8)

Short Notes

(3x5=15)

2. Classify chemical disinfectants. Write a note on chemical disinfectants used in hospital
3. MRSA
4. Toxoplasmosis

Answer Briefly

(5x2=10)

5. Ocular tuberculosis
6. Bacterial spore
7. TRIC agents
8. Oculomycosis
9. Acanthamoeba

One Word Answer

(5x1=5)

10. Name two enriched media
11. Name two spore forming bacteria
12. Name two antifungal antibiotics
13. Name two autoimmune diseases affecting eye
14. Name two viruses causing acute haemorrhagic conjunctivitis
