

Reg. No.....

**Second Year B.Sc Optometry Degree Regular/Supplementary Examinations**  
**February 2021**  
**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 necrosis. Types of necrosis, morphology of different types of necrosis.

**(2+2+6)**

**Short Notes:**

**(3x5=15)**

2. Embolism
3. Tuberculosis
4. Role of diabetes mellitus in ophthalmic pathology.

**Answer Briefly**

**(5x2=10)**

5. Melanoma
6. Plasma cell dyscrasia
7. Apoptosis
8. Difference between benign and malignant tumors
9. Total WBC count.

**One Word Answer**

**(5x1=5)**

10. Name two viral infection that can affect eyes.
11. Name two gram negative bacteria.
12. Two examples for atrophy
13. Name two common malignant tumors of eyelid.
14. Name two parasites that cause eye infections

**P.T.O**

**QP Code: 224013**

**Section B: Microbiology**

**Marks: 40**

**Essay**

**(10)**

1. List the methods of heat sterilization. Describe hot air oven sterilization and mention the articles sterilized in this precautionary measures and sterilization control used (2+8)

**Short Notes**

**(3x5=15)**

2. Bacterial meningitis
3. Keratomycosis
4. Immunoglobulins

**Answer Briefly**

**(5x2=10)**

5. Sequestrated antigens
6. Acanthamoeba
7. ELISA test
8. Bacterial culture media
9. Viral conjunctivitis

**One Word Answer**

**(5x1=5)**

10. Name two high level disinfectants
11. Name two mechanisms of bacterial gene transfer
12. Name two zoonotic bacterial infections
13. Name two culture media used to grow virus
14. Two immunodeficiency diseases

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