

Reg. No.....

**Second Year B.Sc Optometry Degree Supplementary Examinations**

**May 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 Thrombosis. Describe etiopathogenesis and fate of thrombus.

**(1+5+4)**

**Short Notes:**

**(3x5=15)**

2. Describe the differences between benign and malignant tumors.
3. Describe peripheral smear finding in acute myeloid leukemia with diagram.
4. Healing by primary intention

**Answer Briefly**

**(5x2=10)**

5. Cataract
6. Anticoagulants
7. Benedict's test
8. Aspergillosis
9. Macrocytic anemia

**One Word Answer**

**(5x1=5)**

10. What is the type of necrosis seen in brain.
11. Name TWO sites of dystrophic calcification.
12. Negri bodies are seen in ..... disease.
13. Fat embolism may occur as a result of .....
14. Hemophilia A is due to ..... deficiency

**(P.T.O)**

**QP Code: 224013**

**Section B: Microbiology**

**Marks: 40**

**Essay**

**(10)**

1. Define sterilization and disinfection. Enumerate the different methods of moist heat sterilization. Describe in detail the working of autoclave. Mention its uses. (2+2+4+2)

**Short Notes**

**(3x5=15)**

2. Laboratory diagnosis of HIV infection
3. Type 1 Hypersensitivity
4. Pathogenic free living Amoebae

**Answer Briefly**

**(5x2=10)**

5. Bacterial spore
6. Candida albicans
7. Viral inclusion bodies
8. Ocular filariasis
9. Passive immunity

**One Word Answer**

**(5x1=5)**

10. Name two blood borne viruses
11. Name two sporicidal disinfectants
12. Name two transport media
13. Name two infections spread by droplets
14. Give one example of a pigment producing bacteria

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