

Reg. No.....

**Second Year B.Sc Optometry Degree Regular/Supplementary Examinations**  
**November 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**  
**(10)**

**Essay:**

1. Define edema. Describe in detail the aetiopathogenesis of edema. Write briefly the difference between exudate and transudate.

**(1+7+2)**

**Short Notes:**

**(3x5=15)**

2. Phagocytosis
3. Embolism
4. Laboratory diagnosis of neoplasm

**Answer Briefly**

**(5x2=10)**

5. Granuloma
6. Dystrophic calcification
7. Peripheral smear and bone marrow findings in Megaloblastic anemia
8. Chalazion
9. ESR

**One Word Answer**

**(5x1=5)**

10. Write the components of Virchow's triad
11. Name TWO ocular neoplasms
12. Write TWO causes of Hemolytic anemia
13. Mention TWO fungi causing ocular infection
14. Name TWO abnormalities associated with wound healing

**(P.T.O)**

**QP Code: 224013**

**Section B: Microbiology**

**Marks: 40**

**Essay**

**(10)**

1. Define Sterilisation. Write in detail about autoclave- principle, working, applications, sterilisation control

**(2+8)**

**Short Notes**

**(3x5=15)**

2. Delayed Hypersensitivity
3. Fungal keratitis
4. Acanthamoeba

**Answer Briefly**

**(5x2=10)**

5. Prophylaxis of Hepatitis B
6. Trachoma
7. Standard precautions
8. ELISA
9. Methicillin Resistant Staphylococcus aureus

**One Word Answer**

**(5x1=5)**

10. Name two Gram positive cocci
11. Name two viruses infecting eye
12. Culture media commonly used for fungi is .....
13. Name two drug resistant bacteria
14. Name two antifungal agents

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