

Reg. No.:.....

**Second Year B.Sc Optometry Degree Supplementary Examinations  
October 2021**

**Pathology and Microbiology**

**(2014 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*

**Q.P. Code: 213013**

**Marks: 40**

**Section A: Pathology**

**Essay**

**(10)**

1. Define inflammation. Mention the cardinal signs of inflammation. Write briefly about vascular and cellular events in inflammation.

**Short notes**

**(3x5=15)**

2. Differences between benign and malignant tumours.
3. Leprosy.
4. Hypertensive retinopathy.

**Answer briefly**

**(5x2=10)**

5. Pathogenesis of oedema.
6. Chalazion.
7. Hemophilia.
8. Staining characteristics of amyloid.
9. ESR.

**Fill in the blanks**

**(5x1=5)**

10. Two causes of eosinophilia.....
11. Two fixatives used in histopathology laboratory.....
12. Two causes of blue sclera.....
13. Two examples of granulomatous diseases.....
14. Two viruses causing malignancies.....

**(P.T.O)**

**Section B: Microbiology**

**Essay** **(10)**

1. Classify Mycobacteria. Describe the specimen collection and laboratory diagnosis of tuberculosis. (4+6)

**Short notes** **(3x5=15)**

2. Varicella- zoster virus
3. Mechanism of Immune complex diseases.
4. Congenital Toxoplasmosis

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

5. Transport medium
6. Inclusion bodies in viruses
7. Negative staining
8. Opportunistic fungal infections
9. Inspissation

**Fill in the blanks** **(5x1=5)**

10. Two examples for sporicidal disinfectants .....
11. Two examples for DNA viruses.....
12. Ocular Filariasis causing agents are .....
13. ....is a flagellated free living Amoeba
14. One example for pleomorphic bacteria.....

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