

Reg. No.:.....

**Second Year B.Sc Optometry Degree Supplementary Examinations  
February 2020**

**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 apoptosis. Describe in detail the mechanisms involved in apoptosis.

**Short notes**

**(3x5=15)**

2. Describe the pathology of diabetic retinopathy
3. Describe the events in acute inflammation
4. Pathogenesis of renal edema

**Answer briefly**

**(5x2=10)**

5. Tumor markers
6. Fatty liver.
7. Classification of acute myeloid leukemia.
8. Hemophilia A
9. Urinary sediments

**Fill in the blanks**

**(5x1=5)**

10. Two tests for protein in urine .....
11. Two opportunistic infections .....
12. Two sites for red infarct.....
13. Two investigations in iron deficiency anemia .....
14. Definition of granuloma is .....

**(P.T.O)**

**Section B: Microbiology**

**Essay** (10)

1. What is sterilization. Enumerate the different methods of moist heat sterilization. Add a note on working of an autoclave (2+3+5)

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

2. Poliomyelitis
3. Ocular filariasis
4. Toxoplasmosis

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

5. Rational use of antibiotics
6. Lab diagnosis of hepatitis B infection
7. Mycetoma
8. Herpes Zoster
9. Nocardia

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

10. Name two protozoa causing eye infections -----
11. Name two methods of antibiotic sensitivity testing -----
12. Name two autoimmune diseases affecting the eye -----
13. Name two bacteria causing keratitis -----
14. Name two fungi causing endogenous endophthalmitis -----

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