

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)

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Marks: 40

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 -----
