

Reg. No.:.....

**Second Year B.Sc Optometry Degree Supplementary Examinations
April 2019**

Pathology and Microbiology

(2014 scheme)

Time: 3 hrs

Max marks: 80

- Answer all questions
- Draw diagrams wherever necessary
- Write Section A and Section B in separate answer books (32 pages). Do not mix up questions from Section A and Section B

Q.P. Code: 213013

Marks: 40

Section A: Pathology

Essay (10)

1. Define metastasis. Enumerate the modes of metastasis. Explain the metastatic cascade.

Short notes (3x5=15)

2. Differences between exudate and transudate.

3. Describe the pathogenesis of thrombosis.

4. Explain the pathogenesis of granuloma

Answer briefly (5x2=10)

5. Anticoagulants.

6. Immune thrombocytopenic purpura.

7. Leukemoid reaction.

8. Sickle cell anemia - pathogenesis and morphology.

9. Pterygium

Fill in the blanks (5x1=5)

10. Genetic abnormality in retinoblastoma is....

11. Name two causes of proteinuria.....

12. Two causes for agranulocytosis are.....

13. Two causes for megaloblastic anemia

14. Two chemical mediators of inflammation

(P.T.O)

Section B: Microbiology

Essay (10)

1. Describe the pathogenesis and lab diagnosis of tuberculosis. Add a note on BCG vaccine
(3+4+3)

Short notes (3x5=15)

2. Clostridium tetany
3. High level disinfectants
4. Hepatitis B

Answer briefly (5x2=10)

5. Fungal stains
6. Trachoma
7. Enriched media with examples
8. Viral conjunctivitis
9. Scabies

Fill in the blanks (5x1=5)

10. Name two fungi causing eye infections -----
11. Name two DNA viruses causing eye infections ----
12. Name two filarial worms affecting the eye -----
13. Give two examples of type III hypersensitivity ----
14. Name two bacteria causing conjunctivitis -----
