

Reg. No.:.....

**Second Year B.Sc Optometry Degree Supplementary Examinations  
June 2022**

**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 shock. What are the different types of shock. Write briefly about etiopathogenesis of septic shock.

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

2. Chemical carcinogenesis.
3. Apoptosis.
4. Diabetic retinopathy.

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

5. Ocular changes in vitamin A deficiency.
6. Peripheral smear and bone marrow picture in megaloblastic anemia.
7. Difference between benign and malignant neoplasm.
8. Explain bleeding disease.
9. Factors affecting healing.

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

10. Mention two causes for thrombocytopenia.....
11. Name any two endogenous pigments.....
12. Mention two complications of pulmonary tuberculosis.....
13. Mention two viruses causing conjunctivitis.....
14. Mention two causes for proteinuria.....

**(P.T.O)**

**Q.P. Code: 214013**

**Marks: 40**

**Section B: Microbiology**

**Essay (10)**

1. Enumerate the methods of moist heat sterilization. Describe the principle, mechanism and uses of Autoclave. (4+6)

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

2. Autoimmunity
3. Dirofilariasis
4. Adenovirus

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

5. Anaerobic culture media
6. Standard precautions
7. Bacterial capsule
8. Mucormycosis
9. Agglutination test

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

10. Two examples for Gram positive bacilli are.....
11. Two examples for airborne infections are .....
12. ....is a fungal culture medium.
13. Intermediate host for filarial worm is.....
14. Two examples for antifungal agents.

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