**Second Year B.Sc Optometry Degree Supplementary Examinations
February 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 a plasma cell dyscrasia. Describe in detail the investigations to be done in a case of plasma cell dyscrasia. Describe the most common plasma cell dyscrasia.

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

2. Classification of hemolytic anemias

3. Primary tuberculosis

4. Beta thalassemia

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

5. Retinoblastoma

6. Urine sediment

7. Amyloid

8. Lepromatous leprosy

9. Fine needle aspiration cytology (FNAC)

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

10. Name two causes of shock ………………

11. Define an abscess ………………

12. What is a vacutainer tube ………………

13. Name two viruses causing infection ………………

14. Any two conditions causing eosinophilia ………………

## Section B: Microbiology

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

1. Enumerate the aetiological agents of keratitis. Describe in detail the specimen collection and laboratory diagnosis of keratitis. (4+6)

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

2. Type IV hypersensitivity

3. Filariasis

4. Corynebacterium

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

5. Lowenstein Jenson medium

6. Acanthamoeba

7. Bacterial conjunctivitis

8. Haemophilus

9. Gram stain

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

10. Two virucidal disinfectants ………………

11. Two acid fast bacteria ………………..

12. Two opportunistic fungal infections …………

13. Holding temperature of autoclave …………

14. Name two viruses transmitted through contaminated water …………

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