

Reg. No.:.....

**Second Year B.Sc Optometry Degree Examinations October 2017**

**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 (new scheme)**

**Marks: 40**

**Section A: Pathology**

**Essay**

**(10)**

1. Define inflammation. What are the types of inflammation. Describe the cellular events of acute inflammation.

**Short notes**

**(3x5=15)**

2. Thrombosis
3. Leprosy
4. Cataract

**Answer briefly**

**(5x2=10)**

5. Retinoblastoma
6. RBC findings in iron deficiency anemia
7. Apoptosis
8. List the different methods of spread of tumors
9. Granuloma

**Fill in the blanks**

**(5x1=5)**

10. Name TWO anticoagulants
11. Define hyperplasia
12. Mention the bacteria causing conjunctivitis
13. Name TWO malignant tumors of mesenchymal origin
14. Any TWO conditions causing eosinophilia

**(P.T.O)**

**Q.P. Code: 214013 (new scheme)**

**Marks: 40**

**Section B: Microbiology**

**Essay** (10)

1. Define sterilization. Describe the principle and functioning of the autoclave (2+8)

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

- 2. Type I hypersensitivity reaction
- 3. Ocular filariasis
- 4. Subcutaneous mycoses

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

- 5. Immunoglobulin M
- 6. Pseudomonas
- 7. Pathogenic free-living amoebae
- 8. Antifungals used in eye
- 9. Bacterial spore

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

- 10. Name a motile gram negative bacillus
- 11. Name two sporicidal agents
- 12. Name one blood borne virus
- 13. Name two transport media
- 14. Name the culture media used to isolate mycobacterium tuberculosis

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