

Reg. No.:

Second Year B.Sc Optometry Degree Supplementary Examinations April 2017

**MICROBIOLOGY AND PATHOLOGY
(2010 Scheme)**

Time: 3 hrs

Max marks: 80

- Answer all questions
- 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: 205013 Section A – Microbiology Marks: 40

Essay: (15)

1. Define sterilization. Name the physical and chemical agents used in sterilization and explain in detail about heat sterilization

Short notes: (2x5=10)

2. Acquired Immunity
3. Laboratory diagnosis of fungal infections

Answer briefly: (6x2=12)

4. Bacterial spores
5. Onchocerca volvulus
6. AFB staining
7. Immunoglobulin A
8. Modes of transmission of HIV
9. Bacterial causes of keratitis

One word answer: (3x1=3)

10. Name the free living amoeba
11. Name the dermatophytes
12. Name the causative agent of acute hemorrhagic conjunctivitis

Q P Code: 206013 Section B – Pathology Marks: 40

Essay: (15)

1. Define neoplasm. Describe the morphology of neoplastic cells. Enumerate the differences between benign and malignant neoplasms.

Short notes: (3x5=15)

2. Retinoblastoma.
3. Define shock. Mention types and briefly describe pathogenesis of shock.
4. Leprosy.

Answer briefly: (4x2=8)

5. Hypertrophy.
6. Panophthalmitis.
7. Anticoagulants used in hematology laboratory.
8. Hemophilia.

One word answer: (2x1=2)

9. Causative organism of tuberculosis.
10. Two causes of proteinuria.
