

**Reg. No.:** .....

Second Year B.Sc Optometry Degree Examinations – November 2015

**MICROBIOLOGY AND PATHOLOGY**

**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. Name the viruses transmitted through blood and body fluids. Describe in detail the laboratory diagnosis and prophylaxis of any one of them

**Short notes:** (2x5=10)

2. Free living amoebae
3. Moist heat methods of sterilization

**Answer briefly:** (6x2=12)

4. Ocular mycotic infections
5. Actinomyces
6. Clostridium tetani
7. Gram staining
8. Immunoglobulin G
9. AUTOIMMUNE DISEASES

**One word answer:** (3x1=3)

10. Name one aerobic gram positive BACILLUS
11. Name one selective media
12. Name ONE virucidal disinfectant

**Q P Code: 206013      Section B – Pathology**

**Marks: 40**

**Essay:** (15)

1. Explain the pathogenesis and clinical features of tuberculosis. Add a note on its laboratory investigations

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

2. Embolism
3. Retinoblastoma
4. Spread of malignant tumors

**Answer briefly:** (4x2=8)

5. Septic shock
6. Hemophilia
7. Four fungal infections of human being
8. Healing by first intention

**One word answer:** (2x1=2)

9. Normal specific gravity of urine
10. Type of anemia in vitamin B<sub>12</sub> deficiency

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