

Second Year B.Sc Optometry Degree Supplementary Examinations –  
June 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. Discuss the morphology, cultural characters, laboratory diagnosis and treatment of staphylococcus aureus.

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

2. Hepatitis B virus
3. Satellitism

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

4. Corynebacterium diphtheriae
5. Nosocomial infection
6. Flagella of bacteria
7. Hot air oven
8. Lowenstein - Jensen medium
9. Catalase test

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

10. Selective medium
11. Beta hemolytic streptococci
12. Stain used in mycology laboratory

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

**Marks: 40**

**Essay: (15)**

1. Define neoplasia. Describe the important gross and microscopic differences between benign and malignant tumors. Mention the different diagnostic methods of tumors.

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

2. Apoptosis
3. Primary tuberculosis
4. Shock

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

5. Granulomatous inflammation
6. Fixation and two important fixatives in histopathology
7. Thrombocytopenia
8. Chalazion

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

9. List the stages of lobar pneumonia
10. Type of anemia in vitamin B<sub>12</sub> deficiency