

# 2010 Scheme

Reg. No.: .....

## Second Year B.Sc Optometry Degree Supplementary Examinations February 2020 Microbiology and Pathology

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 (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. Classify moist heat methods of sterilization and describe the working principle of autoclave, it's functioning and sterilization controls used

**Short notes:**

**(2x5=10)**

2. Chlamydia trachomatis
3. Lab diagnosis of pneumococcal conjunctivitis

**Answer briefly:**

**(6x2=12)**

4. Ocular manifestations of herpes simplex virus
5. Aspergillus species
6. Hepatitis B virus vaccine
7. Structure of antibody molecule
8. Bacterial flagella
9. Clostridium perfringens

**One-word answer:**

**(3x1=3)**

10. Causative agent of chronic amoebic keratitis
11. Name two autoimmune diseases with ocular manifestations
12. Name two enriched media commonly used in microbiology lab

**Q P Code: 206013**

**Section B – Pathology**

**Marks: 40**

**Essay:**

**(15)**

1. Mention the organism causing tuberculosis and describe the typical microscopic lesion it produces. Describe the basic pathological process of primary pulmonary tuberculosis. Describe briefly on Miliary tuberculosis. **(5+6+4)**

**Short notes:**

**(3x5=15)**

2. Retinoblastoma.
3. What is inflammation. Describe the cellular events in acute inflammation.
4. Hemophilia

**Answer briefly:**

**(4x2=8)**

5. Chronic myeloid leukemia (CML)
6. Conjunctivitis.
7. Cataract.
8. Atrophy with an example

**One-word answer:**

**(2x1=2)**

9. Normal range of total leucocyte count in an adult is.....
10. Calcification of atherosomatous plaque is an example of.....

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