

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, its 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 atheromatous plaque is an example of.....
