

# 2010 Scheme

Reg. No.: .....

## Second Year B.Sc Optometry Degree Regular/Supplementary Examinations February 2022 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. Give a detailed account of the morphology, culture characteristics, common clinical manifestations, lab diagnosis and treatment of staphylococcus aureus

**Short notes:**

(2x5=10)

2. Sample collection and processing in etiological diagnosis of corneal ulcer.
3. Laboratory diagnosis of human immunodeficiency virus infection

**Answer briefly:**

(6x2=12)

4. Mycotic keratitis
5. Bacterial spore
6. AFB staining
7. Agglutination reactions
8. Passive immunity
9. Anaerobic culture methods

**One-word answer:**

(3x1=3)

10. Name two nematodes affecting eye.
11. Name two methods of dry heat sterilization
12. Name two viruses causing acute hemorrhagic conjunctivitis.

Q P Code: 206013

Section B – Pathology

Marks: 40

**Essay:**

(15)

1. Define neoplasia. What is meant by differentiation. Enumerate the differences between benign and malignant neoplasms, in detail.

(2+3+10)

(3x5=15)

**Short notes:**

2. Endophthalmitis.
3. Acute angle – closure glaucoma.
4. Hereditary spherocytosis.

**Answer briefly:**

(4x2=8)

5. Embolism.
6. Apoptosis.
7. Pathologic calcification.
8. Metaplasia.

**One-word answer:**

(2x1=2)

9. Hypoxic cell death in brain is an example for .....necrosis.
10. Normal value of total serum bilirubin in an adult is .....

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