

Second Year B.Sc Optometry Degree Supplementary Examinations
October 2018
Microbiology and Pathology
(2010 Scheme)

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. Define hypersensitivity reactions. Discuss the mechanism and clinical manifestations of type 1 hypersensitivity reaction in detail

Short notes: (2x5=10)

2. Toxoplasmosis
3. Transmission based precautions

Answer briefly: (6x2=12)

4. Sterilization of ophthalmic surgical instruments
5. Rhinosporidiosis
6. Bacterial growth curve
7. Gram staining
8. Ophthalmia neonatorum
9. Haemophilus aegyptius

One-word answer: (3x1=3)

10. Which is the agent causing 'river blindness'
11. Name two methods for antibiotic sensitivity testing.
12. Name two blood borne viral infections.

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Section B – Pathology

Marks: 40

Essay: (15)

1. What is meant by diabetic retinopathy. Classify diabetic retinopathy and describe on the main entities with necessary labeled diagrams. Mention two morbid complications, if neglected. (3+10+2)

Short notes: (3x5=15)

2. Melanoma – eye.
3. Granulomatous infections.
4. Lobar pneumonia.

Answer briefly: (4x2=8)

5. Acute myeloid leukemia (AML).
6. Keratitis.
7. Sickle cell anemia.
8. Hyperplasia.

One-word answer: (2x1=2)

9. Normal fasting blood sugar level is.....
10. Normal pH of human blood is