

Second Year B.Sc Optometry Degree Supplementary Examinations –
November 2016

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. Name the ocular infections and its causative agents. Explain the collection of sample from eye and adnexa. Describe the laboratory diagnosis of any one type of eye infections

Short notes: (2x5=10)

2. Anaphylaxis
3. Autoclaves

Answer briefly: (6x2=12)

4. Mycotic keratitis
5. Adenovirus
6. Acanthamoeba
7. Ophthalmia neonatorum
8. Name four hepatitis viruses
9. Draw a neat labeled diagram of HIV virus

One word answer: (3x1=3)

10. Name a spore bearing gram positive bacilli
11. Name the causative agents of ocular filariasis
12. Name the causative agent of acute hemorrhagic conjunctivitis

Q P Code: 206013 Section B – Pathology

Marks: 40

Essay: (15)

1. Define and classify anemia. Explain the pathogenesis and laboratory investigations of Iron deficiency anemia.

Short notes: (3x5=15)

2. Mechanism of spread of malignant neoplasms.
3. Define edema. Mention types and briefly describe pathogenesis of edema.
4. Hypertensive retinopathy.

Answer briefly: (4x2=8)

5. Metaplasia.
6. Sympathetic ophthalmia.
7. Granulomatous inflammation.
8. Ketone bodies in urine.

One word answer: (2x1=2)

9. Name a malignant tumor of eye.
10. Two causes of eosinophilia.