

Second Year B.Sc Optometry Degree Examinations - October 2014

MICROBIOLOGY AND PATHOLOGY

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 and classify immunity. Discuss about acquired immunity

Short notes:

(2x5=10)

2. Toxoplasmosis
3. Type IV hypersensitivity

Answer briefly:

(6x2=12)

4. ELISA test
5. Methicillin resistant staphylococcus Aureus (MRSA)
6. Opportunistic fungal infections
7. Pseudomonas
8. Potassium hydroxide mount (KOH Mount)
9. Immunoglobulin M

One word answer:

(3x1=3)

10. Motile gram negative bacilli
11. Example for transport media
12. Autoimmune disease affecting the eye

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Section B – Pathology

Marks: 40

Essay:

(15)

1. Define inflammation. Enumerate the cardinal signs of inflammation. Describe the phases of primary wound healing. Enumerate the complications of wound healing

Short notes:

(3x5=15)

2. Differences between necrosis and apoptosis
3. Types of emboli
4. Ocular complications of diabetes mellitus

Answer briefly:

(4x2=8)

5. Differences between hyperplasia and hypertrophy
6. Collection of urine
7. Red blood cells in Iron deficiency anemia
8. What is tumor differentiation

One word answer:

(2x1=2)

9. Ingredients of Leishman stain
10. Two malignant tumors of mesenchymal origin