

Reg. No.....

Second Year B.Sc Optometry Degree Regular/Supplementary Examinations
February 2023
Pathology & Microbiology
(2016 Scheme)

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. Do not mix up questions from Section A and Section B*

QP Code: 223013

Section A - Pathology

Marks: 40

Essay:

(10)

1. Define apoptosis. Describe in detail the mechanisms involved in apoptosis.

Short Notes:

(3x5=15)

2. Describe the pathology of diabetic retinopathy.
3. Chemical mediators of inflammation.
4. Pathogenesis of thrombosis

Answer Briefly

(5x2=10)

5. Routes of metastasis
6. Pathological calcification
7. Blood picture of chronic myeloid leukemia
8. Hemophilia A
9. Urinary sediments

One Word Answer

(5x1=5)

10. Two reducing substances in urine
11. Two opportunistic infections
12. Heart failure cells are seen in
13. Two causes for hemolytic anemia
14. The component cells of a granuloma are

P.T.O

QP Code: 224013

Section B: Microbiology

Marks: 40

Essay

(10)

1. Define immunity. Classify hypersensitivity reactions. Describe the mechanism of type 1 hypersensitivity reactions in detail

(1+2+7)

Short Notes

(3x5=15)

2. Moist heat method of sterilization
3. Prophylaxis for hepatitis B virus
4. Viral culture methods

Answer Briefly

(5x2=10)

5. Chronic amoebic keratitis
6. Anaerobic culture methods
7. Ophtalmia Neonatorum.
8. Ocular manifestations of tuberculosis
9. Standard precautions

One Word Answer

(5x1=5)

10. Name two blood borne viruses
11. Name two diseases transmitted by mosquitoes
12. Name two DNA viruses
13. Name two live attenuated vaccines
14. Name two viruses causing acute hemorrhagic conjunctivitis
