

Reg. No.....

**Second Year B.Sc Optometry Degree Supplementary Examinations June 2022
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 shock. Enumerate the types of shock. Describe the pathogenesis of septic shock.

Short Notes:

(3x5=15)

2. Describe the pathogenesis and morphology of retinoblastoma
3. Describe the pathogenesis and mechanisms of apoptosis.
4. Leprosy - Classification and morphology

Answer Briefly

(5x2=10)

5. Packed Cell Volume (PCV)
6. Endogenous pigments
7. Fate of a thrombus.
8. Agranulocytosis.
9. Ocular manifestations of diabetes mellitus

One Word Answer

(5x1=5)

10. The confirmatory diagnostic test in chronic myeloid leukemia is
11. Four sites of primary tuberculosis
12. Two common infections of the eye are
13. Deficiency in hereditary spherocytosis
14. Two organs with red infarct

P.T.O

Essay

(10)

1. Name two ocular infections caused by streptococcus pneumoniae (Pneumococci). Describe how specimens are collected and processed in the laboratory. Draw a microscopic field of gram smear prepared from the specimen. How can the spread of infection be prevented. (2+4+2+2)

Short Notes

(3x5=15)

2. Autoclave
3. Lab diagnosis of fungal keratitis
4. Toxoplasmosis

Answer Briefly

(5x2=10)

5. Methicillin resistant Staphylococcus aureus
6. Ocular manifestations of Herpes simplex virus
7. Bacterial spore
8. ELISA test
9. BCG vaccine

One Word Answer

(5x1=5)

10. Name two capsulated bacteria
11. Name two nematodes infecting eye
12. Name two enriched media commonly used in microbiology lab
13. Name two acid fast bacteria
14. Name two high level disinfectants
