

Reg. No.:.....

**Second Year B.Sc Optometry Degree Supplementary Examinations
September 2019**

Pathology and Microbiology

(2014 scheme)

Time: 3 hrs

Max marks: 80

- Answer all questions
- Draw diagrams wherever necessary
- 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: 213013

Marks: 40

Section A: Pathology

Essay

(10)

1. Define embolism. Enumerate the types of embolism. Describe the pathogenesis of fat embolism.

Short notes

(3x5=15)

2. Describe the pathogenesis and morphology of retinoblastoma
3. Describe the pathogenesis and morphology of chronic myeloid leukemia.
4. Chemical carcinogenesis

Answer briefly

(5x2=10)

5. Packed Cell Volume (PCV)
6. Leprosy - Classification and morphology.
7. Factors affecting healing.
8. Aplastic anemia
9. Endogenous pigments

Fill in the blanks

(5x1=5)

10. Definition of neoplasia is
11. Four sites of primary tuberculosis
12. Two common ocular infections
13. Deficiency in hereditary spherocytosis
14. The type of necrosis in brain is

(P.T.O)

Section B: Microbiology

Essay **(10)**

1. Describe the pathogenesis, lab diagnosis and treatment of diphtheria. Add a note on its immunoprophylaxis. (3+3+2+2)

Short notes **(3x5=15)**

2. Type 1 hypersensitivity
3. Describe the working of an autoclave
4. HIV - pathogenesis and lab diagnosis

Answer briefly **(5x2=10)**

5. Opportunistic mycosis
6. Methicillin resistant staphylococcus aureus
7. Congenital toxoplasmosis
8. Agglutination reaction with examples
9. High level disinfectants

Fill in the blanks **(5x1=5)**

10. Two free living amoeba -----
11. Two parasites causing eye infections -----
12. Two viruses causing keratoconjunctivitis -----
13. Two antifungals that can be used in the eye -----
14. Name two bacteria causing keratitis -----
