

Reg. No.....

**Second Year B.Sc Optometry Degree Supplementary Examinations**  
**February 2020**  
**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 neoplasia. Enumerate the modes of metastasis. Explain the metastatic cascade.

**Short Notes:**

**(3x5=15)**

2. Differences between exudate and transudate
3. Describe the pathogenesis of septic shock
4. Pathology and pathogenesis of primary tuberculosis

**Answer Briefly**

**(5x2=10)**

5. Anticoagulants
6. Factors affecting healing
7. Immune thrombocytopenic purpura.
8. Beta thalassemia - pathogenesis
9. Pterygium

**One Word Answer**

**(5x1=5)**

10. Genetic abnormality in retinoblastoma is ....
11. Name four species of malarial parasite
12. Definition of apoptosis is .....
13. Two diagnostic tests in iron deficiency anemia
14. Two chemical mediators of inflammation

**P.T.O**

**QP Code: 224013**

**Section B: Microbiology**

**Marks: 40**

**Essay**

**(10)**

1. Name the Hepatitis viruses . Explain the morphology,pathogenesis, lab diagnosis & prophylaxis of Hepatitis B viruses".

(1+2+2+3+2)

**Short Notes**

**(3x5=15)**

2. Hot air oven
3. Ocular filariasis
4. Mycotic infections of eye

**Answer Briefly**

**(5x2=10)**

5. KOH mount preparation
6. Ophthalmia neonatorum
7. Bacterial flagella
8. Structure of IgM antibody
9. Hand hygiene

**One Word Answer**

**(5x1=5)**

10. Name two motile bacteria
11. Name two methods of antibiotic sensitivity testing
12. Name two transport media
13. Name two free living amoeba
14. Name two sporicidal agents

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