

Reg. No.....

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

**May 2024**

**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 acute inflammation. Describe the chemical events in acute inflammation (2+8)

**Short Notes:**

**(3x5=15)**

2. Describe the peripheral smear findings of haemolytic anaemia
3. Differentiate hyperaemia and congestion
4. Describe the triad of thrombosis

**Answer Briefly**

**(5x2=10)**

5. Describe the urinary findings helpful to differentiate obstructive and haemolytic jaundice
6. Describe the ocular changes in diabetic retinopathy
7. Pathological calcification
8. What are the complications of wound healing
9. Define an infarct and its types

**One Word Answer**

**(5x1=5)**

10. Name two sexually transmitted diseases
11. Name two tumour markers
12. Name two common causes of hypochromic microcytic anemia
13. Name two causes for transudate formation
14. Type of inheritance of retinitis pigmentosa

**(P.T.O)**

**QP Code: 224013**

**Section B: Microbiology**

**Marks: 40**

**Essay**

**(10)**

1. Name the common fungi causing keratitis. Describe in detail lab diagnosis of fungal keratitis.

**(3+7)**

**Short Notes**

**(3x5=15)**

2. Ocular filariasis.
3. Toxoplasmosis.
4. Trachoma.

**Answer Briefly**

**(5x2=10)**

5. Enumerate the most common types of healthcare associated infections.
6. Differentiate between active and passive immunity.
7. Bacterial spore.
8. Define sterilization and disinfection.
9. Ophthalmia neonatorum.

**One Word Answer**

**(5x1=5)**

10. Name two enriched media.
11. Name two different immunoglobulins.
12. Name two motile gram negative bacilli.
13. Name two tuberculocidal disinfectants.
14. Name two blood borne viral infections.

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