

Reg. No.....

**Second Year B.Sc Optometry Degree Examinations October 2018**

**Pathology & Microbiology**

**(2016 Scheme)**

**Time: 3 hrs**

**Max. Marks: 80**

- **Answer all questions**
- **Draw diagrams 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, etiopathogenesis of tumors, different methods of tumor spread, diagnostic methods. (2+3+3+2)

**Short Notes:**

**(3x5=15)**

2. Shock
3. Vascular changes in inflammation
4. Cataract

**Answer Briefly**

**(5x2=10)**

5. Fungal infection
6. Leukemia
7. Granuloma
8. Hyperplasia
9. Retinoblastoma.

**One Word Answer**

**(5x1=5)**

10. Name two viruses important in neoplasia
11. Two examples for hemolytic anemia.
12. Name the three components or Virchow's triad.
13. Two examples for malignancies of epithelial origin
14. Cell morphological changes in apoptosis.

**P.T.O**

**QP Code: 224013**

**Section B: Microbiology**

**Marks: 40**

**Essay**

**(10)**

1. List four common infections affecting eye and their causative agents. Describe the mode of transmission, pathogenesis, clinical features and diagnosis of Acanthamoeba keratitis (4+6)

**Short Notes**

**(3x5=15)**

2. Autoclave sterilization
3. Mycobacterium tuberculosis
4. HIV

**Answer Briefly**

**(5x2=10)**

5. Intermittent sterilization
6. Staphylococcus epidermidis
7. Bacterial drug resistance
8. PCR (polymerase chain reaction) in disease diagnosis
9. Transport media

**One Word Answer**

**(5x1=5)**

10. Name two bacteria producing spore
11. Name two sexually transmitted infections
12. Name two opportunistic fungal infections
13. Name two gram positive bacilli
14. Name two anti-viral drugs

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