

**Rajiv Gandhi University of Health Sciences, Karnataka**  
**II Year B.Sc. Optometry Degree Examination – 14-May-2026**

**Time: Three Hours**

**Max. Marks: 100 Marks**

**MICROBIOLOGY AND PATHOLOGY, PHARMACOLOGY (RS-4)**  
**Section A – MICROBIOLOGY AND PATHOLOGY (50 marks)**

**Q.P. CODE: 3349**

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

**(Both QP codes 3349 and 3350 are to be answered within total duration of 3 hours)**

**LONG ESSAYS (First Question Choice)**

**1 x 10 = 10 Marks**

1. Define leukemia. Explain its classification. Describe chronic myeloid leukemia.

**OR**

Explain the risk factor, pathogenesis and laboratory diagnosis of Mycotic keratitis.

**SHORT ESSAYS (Question No 5 choice)**

**5 x 5 = 25 Marks**

2. Describe the types of thromboembolism.
3. Write a short note on disinfection.
4. What is Acanthamoeba keratitis?
5. Explain the structure and composition of viruses.

**OR**

Define sterilization, write a note on moist heat sterilization.

6. Enumerate the differences between lepromatous and tuberculoid leprosy.

**SHORT ANSWER**

**5 x 3 = 15 Marks**

7. Name the three viruses causing keratitis.
8. Give an account of selective media.
9. River blindness.
10. Structure of HIV virus.
11. Describe the types of infarctions.

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