Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. Optometry Degree Examination – 16-Nov-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 sterilization. Write a note on the autoclave.
   OR
   Give an account of the causative agent, pathogenesis and treatment of bacterial conjunctivitis.

SHORT ESSAYS (Question No 5 choice) **5 x 5 = 25 Marks**

2. Explain Pseudomonas aeruginosa.
3. Describe the laboratory diagnosis of HIV infections.
4. Define infection. Describe the method of transmission of infection.
5. Describe the collection and processing of eye specimens for bacteriological investigation.
   OR
   Give an account of culture media.
6. Explain shock and its types. Describe in detail the hypovolaemic shock.

SHORT ANSWER **5 x 3 = 15 Marks**

7. Name any four infections causes by staphylococcus aureus.
8. Give an account of blood agar.
9. Name any three bacterial causes of keratitis.
10. Name the three antibiotics used for eye infections.
11. Write a technical note on exudates.

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