

PAPER CODE: AHS15013A&B

KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES

WARANGAL, TELANGANA– 506 002

B.Sc. (Allied Health Sciences) SECOND YEAR DEGREE EXAMINATIONS: FEBRUARY 2026

OPTOMETRY

PAPER IV

MICROBIOLOGY, PATHOLOGY (SECTION A)

PHARMACOLOGY (SECTION B)

Time: 3 Hours

Max Marks: 80

Note: Draw diagrams whenever necessary.

Answer **Part-A & part-B** Questions in two **respective answer booklets**. Questions in **Part “A”** should not be answered in **Part “B”** and **vice versa**. Otherwise, they will not be evaluated.

Part -A (MICROBIOLOGY, PATHOLOGY) = 40 Marks

Write essay on any ONE of the following:

1 X 10 = 10

1. Name the various ocular tumors. Elaborate on Uveal melanoma.
2. Discuss the Etiology and pathogenesis of Endophthalmitis.

Write a short note on any THREE of the following:

3 X 5 = 15

3. Catalase Test.
4. Trachoma.
5. Opportunistic viral infections of the eye.
6. Discuss the features of Hypertensive retinopathy.
7. Causes and pathology of papilledema.

Write briefly on any FIVE of the following:

5 X 3 = 15

8. List Nematodes that affect the eye.
9. Bleeding time.
10. Name Torch agents.
11. Types of shock.
12. Define pancytopenia.
13. Atrophic bulbi.
14. Conjunctival Pterygium.

Part -B (PHARMACOLOGY) = 40 Marks

Write essay on any ONE of the following:

1 X 10 = 10

15. Write in detail about use of Anesthetics in the Eye.

16. Ocular routes of drug administration.

Write a short note on any THREE of the following:

3 X 5 = 15

17. Factors modifying drug absorption.

18. Different techniques of giving local anesthesia in the eye.

19. Chemotherapy.

20. Bio - transformation.

21. Non-steroidal anti-inflammatory drugs.

Write briefly on any FIVE of the following:

5 X 3 = 15

22. Tear substitutes.

23. Cycloplegics.

24. Anti-viral drugs.

25. Mention the uses of Mannitol.

26. Mention the uses of Atropine.

27. Drugs causing Ocular toxicity.

28. Vitamin A deficiency.
