

OPHTHALMOLOGY

PAPER – IV

Please read carefully the important instructions mentioned on Page '1'

- *Answers to questions of Part 'A' and Part 'B' are to be strictly attempted in separate answer sheet(s) and the main + supplementary answer sheet(s) used for each part must be tagged separately.*
- *Answers to questions of Part 'A' attempted in answer sheet(s) of Part 'B' or vice versa shall not be evaluated.*

PART B

6. Describe the barriers to drug penetration in the cornea. What is partition coefficient? Describe various factors affecting drug penetration with respect to drug formulation and corneal anatomy. 4+2+4
7. What are cytokines? Enumerate important pro-inflammatory cytokines. What role do they play in ocular inflammation? 2+3+5
8. What is the pharmacological mechanism of action of cyclosporine? What are its clinical uses in ophthalmology? 5+5
9. Describe clinical and therapeutic uses of prisms in ophthalmology. 10
10. Give various methods of grading of anterior chamber angle. Discuss principle of gonioscopy and various types of gonioscopes. What are the other modalities to see anterior chamber angle? 3+4+3
