

MASTER OF OPTOMETRY
F. Y. M. Optom. : WINTER :- 2021
SUBJECT: BASIC SCIENCES

Day : Tuesday
Date 19-Apr-2022

W-803-2021

Time : 10:00 AM-12:00 PM
Max. Marks: 50

N.B.

- 1) Section – A is of objective questions for total 20 marks.
- 2) Section – B is of short questions for total 30 marks.
- 3) Answer Section – A and Section B on two **SEPARATE** answer book.

SECTION – A

Q.1 Fill in the blanks: **(10)**

- 1) The pH of tear film is _____.
- 2) Tiny depression in very centre of fovea is known as _____.
- 3) Aqueous humor is secreted by _____.
- 4) Argyl Robertson's pupil is seen in _____ condition.
- 5) An example of antifungal drug is _____.
- 6) Crystalline lens develops from _____.
- 7) _____ cells present in conjunctiva secrete mucin layer of tear film.
- 8) Refractive index of aqueous humor is _____.
- 9) The deuterans are _____ colour deficient.
- 10) _____ test is used to differentiate myogenic ptosis from neurogenic ptosis.

Q.2 State true or false. **(10)**

- 1) Tears have bacteriostatic properties due to presence of lysozyme and lactoferrin.
- 2) RAPD is best demonstrated by swinging flash light test.
- 3) Spasm of ciliary muscles results in hyperopic refractive state.
- 4) Posterior surface of crystalline lens is more curved than anterior surface.
- 5) One of the toxic ocular effect of Ethambutol can be optic neuritis.
- 6) Fluctuation of pupillary diameter seen in normal individuals is known as PXF.
- 7) Goldman Applanation tonometer applanates the area of 3.06 mm^2 .
- 8) Cornea is a meniscus lens.
- 9) Miotics are not indicated in treatment of glaucoma.
- 10) Ophthalmia neonatrum occurs at an adult age.

SECTION - B

Q.3 Answer the following any **SIX:** **(30)**

- 1) Describe anatomical and physiological factors responsible for corneal transparency.
- 2) Tabulate differences between clinical features of bacterial, viral and fungal ulcers.
- 3) What are steroids? What is their mechanism of action and side effects in eye?
- 4) Write about diabetes and its effects on eye.
- 5) Explain in detail about various visual pathway defects with suitable diagrams.
- 6) Explain the terms-Hypersensitivity, toxicity, infection and inflammation.
- 7) Write in detail about vascular supply of eye.

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