



BRAINWARE UNIVERSITY

Term End Examination 2023-2024 Programme – B.Optometry-2022/B.Optometry-2023 Course Name – Ocular Anatomy Course Code - BOPTOC201 (Semester II)

Full Marks : 60 Time : 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A (Multiple Choice Type Question)

(i) The radius of curvature of the posterior surface of cornea is

a) 6.5 mm b) 7.5 mm

c) 6.8 mm d) 7.8 mm
(ii) Corneal epithelium is composed of

Choose the correct alternative from the following:

a) Stratified squamous keratinised epithelial b) Stratified squamous non-keratinised

cells epithelial cells
c) Avascular layer of collagen fibres d) Vascular layer of connective tissue

(iii) Select the type of collagen makes up the majority of the stroma of the cornea

a) Type I collagen b) Type II collagen

c) Type III collagen d) Type IV collagen

c) Type III collagen

a) Type IV collagen

v) Orbicularis oculi musclo is supplied by

(iv) Orbicularis oculi muscle is supplied by

a) Facial nerve
b) Oculomotor nerve
c) Optic nerve
d) Trigeminal nerve

(v) LPS is supplied by

a) Sympathetic nerve b) Oculomotor nerve

c) Optic nerve d) Trigeminal nerve

a) ingeninarierve

(vi) Inferior oblique muscle is supplied by

a) Trochlear nerve b) Oculomotor nerve

c) Optic nerve d) Abducens nerve

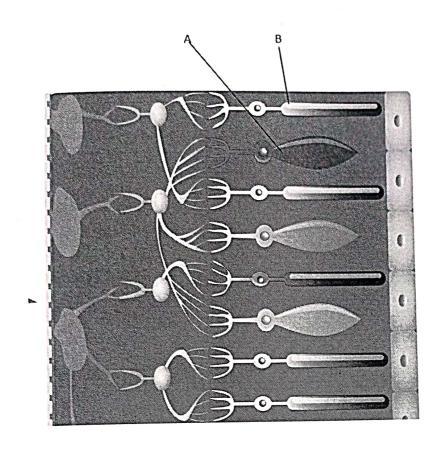
(vii) Superior oblique muscles is supplied by

a) Trochlear nerve b) Oculomotor nerve

c) Optic nerve d) Abducens nerve

1 x 15=15

| (viii) | Select how many vortex vein are present | | | |
|--------|--|---|--|--|
| | a) 1 | b) 3 | | |
| | c) 4 | d) 6 | | |
| (ix) | Choose the tertiary action of superior oblique muscle | | | |
| | a) Elevation | b) Abduction | | |
| | c) Extortion | d) Adduction | | |
| (x) | Choose the primary action of Medial rectus musc | | | |
| | a) Elevation | b) Abduction | | |
| | c) Extortion | d) Adduction | | |
| ` ' | (xi) Select the function of the lacrimal gland in the eye | | | |
| | a) To produce tears | b) To secrete oil to lubricate the eyelidd) To regulate the amount of light entering the | | |
| | c) To protect the eyelid from infection | eye | | |
| (xii) | is responsible for drainage of tear. | | | |
| | a) Pupil | b) Sclera | | |
| | c) Fornix | d) Punctum | | |
| (xiii) | are not true glands but folds of muco conjunctina between the tarsal plates and fornics | us membrane present in the palpebral | | |
| | a) Meibomian gland | b) Goblet cells | | |
| | c) Glands of Manz | d) Henle's glands | | |
| (xiv) | Choose the correct statement for the optic disc | | | |
| | a) The part of the retina that contains only rods | b) The part of the retina that contains only cones | | |
| | c) The part of the retina where the optic nerve exits the eye | d) None of these | | |
| (xv) | supplies the superior oblique muscle. | | | |
| | a) Abducens nerve | b) Trochlear nerve | | |
| | c) Oculomotor nerve | d) Facial nerve | | |
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| | Group (Shart Angus T | | | |
| | (Short Answer Ty | pe Questions) 3 x 5=15 | | |
| 2. E | 2. Explain the histology of endothelium layer of the cornea. | | | |
| | lentify and explain the role of the given cells. | rnea. (3) (3) | | |



| 4. Describe the blood supply of lacrimal passages. | |
|--|---------------|
| 5. Explain the surgical spaces of the orbit. | (3) |
| 6. Draw and label the anterior chamber angle structures. | (3) |
| OR Explain the clinical perspective of keratoconus. | (3) |
| Group-C (Long Answer Type Questions) | 5 x 6=30 |
| 7. Illustrate the microscopic structure of the iris. | (5) |
| 8. "Medial wall of orbit is vulnerable to mechanical trauma." Justify. | (5) |
| 9. Define the components of visual pathway along with a suitable diagram. | (5) |
| 10. Discuss the origin, and insertion of the medial rectus muscle and mention its nerve supply 11. Explain the layers of the conjunctiva with a diagram. | /. (5) (5) |

| 12. A patient is complaining of limited elevation, on examination you have suspected superior (Street to Palsy. Describe the origin, and insertion of the muscle and write down your logic behind | (5) |
|---|-----|
| the susception. | (5) |
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