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Barasat, Kolkata -700125

Term End Examination 2025-2026

Programme – B.Optomety-2021/B.Optomety-2022/B.Optomety-2023

Course Name – Systemic Conditions & Eye

Course Code - BOPTOC505

(Semester V)

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)

1 x 15=15

1. Choose the correct alternative from the following :

- (i) Choose the correct option from the following: In case of Lymphoma abnormal lymphocytes build up in the _____ of the body.
- a) Plasma cells
b) Bone marrow
c) Lymph nodes
d) Soft tissues
- (ii) The most common extraocular muscle defect noted in ocular Graves' disease is due to involvement of:
- a) Inferior rectus
b) Medial rectus
c) Superior oblique
d) Inferior oblique
- (iii) Which among the following systemic disorders is associated with passive oedema of eyelids?
- a) Diabetes
b) Rheumatoid arthritis
c) Hyperproteinaemia
d) Chronic renal failure
- (iv) Which of the following medications is commonly used to manage myasthenia gravis symptoms?
- a) Insulin
b) Antibiotics
c) Antidepressants
d) Acetylcholinesterase inhibitors
- (v) Blurring of the disc margin can be found in _____
- a) Malignant hypertension
b) Diabetic retinopathy
c) Iridocyclitis
d) Retinal detachment
- (vi) A patient complains of sudden painless loss of vision in one eye for past 24 hours, with an associated history of atherosclerosis. Identify the possible cause.
- a) Central retinal artery occlusion
b) Diabetic retinopathy
c) Hypertensive retinopathy
d) Cystoid macular oedema
- (vii) Onchocerciasis can lead to visual impairment due to:
- a) Optic neuritis
b) Macular degeneration
c) Corneal opacities
d) Uveitis

- (viii) Choose the correct option from the following: due to invasion of Herpes Virus on the cornea Corneal Hysteresis and Corneal Resistance Factor gets _____ than previous state.
- a) increased
b) decreased
c) unchanged
d) unequal
- (ix) A patient with hypertensive retinopathy may present with "copper-wiring" appearance.
- a) Abnormal color of the iris
b) Thickened retinal arterioles with silver or copper sheen
c) Hemorrhages in the macula
d) Optic nerve swelling
- (x) What ocular condition can result from metastatic cancer spreading to the eye socket (orbit)?
- a) Glaucoma
b) Ocular melanoma
c) Exophthalmos
d) Macular degeneration
- (xi) Filariasis can lead to a condition known as "River Blindness." What is the scientific name for this condition?
- a) Ocular Onchocerciasis
b) Ocular Filariasis
c) Ocular Dengueitis
d) Ocular Malaria
- (xii) What is the most common ocular manifestation of ocular cysticercosis?
- a) Retinal detachment
b) Conjunctivitis
c) Subconjunctival hemorrhage
d) Retinal hemorrhage
- (xiii) Which of the following is a late-stage ocular complication of leprosy?
- a) Conjunctivitis
b) Trichiasis
c) Dry eye syndrome
d) Episcleritis
- (xiv) Which vitamin deficiency is associated with night blindness and other ocular complications?
- a) Vitamin C
b) Vitamin D
c) Vitamin A
d) Vitamin K
- (xv) Ocular complications of vitamin A deficiency can lead to:
- a) Glaucoma
b) Cataracts
c) Xerophthalmia
d) Macular degeneration

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Group-B

(Short Answer Type Questions)

3 x 5=15

2. Discuss the relationship between vitamin D deficiency and dry eye syndrome. (3)
3. What are the different stages of hypertensive retinopathy? (3)
4. How is hypertensive retinopathy diagnosed? (3)
5. How does thyroid eye disease affect the eyes? (3)
6. How does immune system play a role in Type I Diabetes Mellitus? (3)

OR

Plan the referral guidelines for different stages of Diabetic Retinopathy. (3)

Group-C

(Long Answer Type Questions)

5 x 6=30

7. Discuss the role of vitamin C deficiency in the development of cataracts and its impact on ocular health. (5)
8. Discuss the management and treatment options for hypertensive retinopathy, including lifestyle modifications and medication interventions. (5)
9. Provide examples of general medical emergencies that can lead to ocular complications and explain the specific ocular issues that may arise in each case. (5)
10. What are the ocular complications that can arise from Herpes virus infection? (5)
11. Describe the symptoms and signs of diabetic retinopathy. (5)

12. Describe the role of inflammation in the development of ocular complications in Sjogren's syndrome. (5)

OR

Compare and contrast the ocular manifestations associated with Sjogren's syndrome. (5)

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