Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - 16-July-2021

Time: Three Hours **Max. Marks: 80 Marks**

LOW VISION AIDS AND GERIATRIC OPTOMETRY
(Revised Scheme – 3)
Q.P. CODE: 3121

Your answers should be specific to the questions asked
Draw neat, labeled diagrams wherever necessary

LONG ESSAYS (Answer Any Three) **3 x 10 = 30 Marks**

1. Write the cause of albinism, types, systemic and ocular sign and symptoms, low vision management.
2. Write the cause of Retinitis pigmentosa? Types, systemic and ocular sign and symptoms, and low vision management
3. A 7/F Pt diagnosed as Retinitis pigmentosa complains cannot able to copy from blackboard while sitting in back bench. She can read at closer distance. BCVA: 6/24 (BE), NV: N5 at 20cm. How you will manage this case?
4. Write the pathophysiology of POAG and PCAG by suitable diagram. What are the procedures you will go through for evaluating the glaucoma?

SHORT ESSAYS (Answer Any Six) **6 x 5 = 30 Marks**

5. Emotional reactions to loss as per Kubler – Ross model, explain briefly.
6. How to do refraction in low vision patient?
7. How you will give training for Telescope?
8. What are the refractive changes occurs due diabetes?
9. Write dispensing consideration you will explain while dispensing spectacle in older patients.
10. Describe Photo Stress Recovery Test.
11. What are the structural and physiological changes occurs in eye and its adnexa due to aging?

SHORT ANSWERS **10 x 2 = 20 Marks**

12. Write two causes may leads to peripheral field loss.
13. A pt BCVA 6/60, to get VA 6/12 how much magnification required in telescope.
14. In moderate Alzheimer disease what type of low vision devices with be useful.
15. What is brunescence?
16. Name two different types Contact lenses specially used for Keratoconus.
17. Write few nonoptical devices used for orientation and mobility.
18. Write two diseases where contrast sensitivity decreased.
19. Write two advantages of electronic magnifier over optical magnifier.
20. Name two softwares used in training for computer work in low vision.
21. How PSRT performed in low vision?

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - 19-Jul-2021

Time: Three Hours **Max. Marks: 80 Marks**

CONTACT LENS (RS3)
Q.P. CODE: 3122

Your answers should be specific to the questions asked
Draw neat, labeled diagrams wherever necessary

LONG ESSAYS (Answer any Three) **3 x 10 = 30 Marks**

1. Materials used in manufacturing of RGP lenses. Give the merits and demerits of each material
2. Discuss about the corneal complications of contact lens.
3. Briefly explain characteristics for calcium phosphate and protein deposits.
4. Briefly explain common soft contact lens complication, causes and management.

SHORT ESSAYS (Answer any Six) **6 x 5 = 30 Marks**

5. Briefly explain Keratoconus Screening algorithms used in the Corneal Topographer.
6. Write short note on SEAL.
7. How will you differentiate between contact lens–induced abnormalities of corneal curvature and true ectasia?
8. Write in detail about Semi-soft contact lens care and maintenance.
9. Write briefly on lens and lens fit related complication.
10. Role of Fluorophotometers in contact lens practice.
11. Write short note on different methods for evaluating the anterior profile of the cornea.

SHORT ANSWERS **10 x 2 = 20 Marks**

12. Aesthesiometry
13. Base curve (BC)
14. Pachometers
15. What are the signs and symptoms of a poor fit?
16. Tear breakup time
17. Draw a neat and labeled diagram of RGP tricurve design.
18. Confocal Microscope
19. Oxygen permeability
20. Give example for which Base curve steeper than the flatter K with a minus refraction?
21. Vertex distance

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - 22-Jul-2021

Time: Three Hours **Max. Marks: 80 Marks**

SYSTEMIC DISEASES AND OCULAR DISEASES
Section A: Systemic Diseases – (40 Marks)
(Revised Scheme – 3)
Q.P. CODE: 3123

Your answers should be specific to the questions asked
Draw neat, labeled diagrams wherever necessary
(Note: Both QP Codes 3123 and 3123 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer Any Two) **2 x 10 = 20 Marks**

1. Describe in detail malarial parasite life cycle, clinical disease and complications.
2. Describe embolism. Write in detail sub-acute bacterial endocarditis.
3. Describe etiology, etiopathogenesis and clinical diagnosis of systemic hypertension and hypertensive retinopathy.

SHORT ESSAYS (Answer Any Two) **2 x 5 = 10 Marks**

4. Diabetic retinopathy
5. Hyperthyroidism and eye
6. Vitamin A deficiency

SHORT ANSWERS **5 x 2 = 10 Marks**

7. Cystecercosis
8. X linked disorders
9. Ig A
10. Fundus
11. TB and eye

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - 22-Jul-2021

Time: Three Hours **Max. Marks: 80 Marks**

SYSTEMIC DISEASES AND OCULAR DISEASES
SECTION B: OCULAR DISEASES – (40 MARKS)
(REVISED SCHEME – 3)
Q.P. CODE: 3124

Your answers should be specific to the questions asked
Draw neat, labeled diagrams wherever necessary
(Note: Both QP Codes 3123 and 3124 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer Any Two) **2 x 10 = 20 Marks**

1. How do you evaluate visual integrity in neuropthalmic disorders? Describe the visual pathway lesions and the corresponding field defect with neat labelled diagram.
2. Describe in detail about classifications, clinical evaluation and management of Cataract.
3. Explain in detail about clinical evaluation and management of Ptosis.

SHORT ESSAYS (Answer Any Two) **2 x 5 = 10 Marks**

4. Write a short note on Keratoto conjunctivitis Sicca.
5. List down the causes for vitreous haemorrhage. Explain the clinical evaluation and management options for vitreous haemorrhage.
6. Elaborate on the classifications and clinical evaluation pattern of retinal detachment. How do you differentiate Retinoschisis from Retinal detachment?

SHORT ANSWERS **5 x 2 = 10 Marks**

7. Differentiate POAG and PACG.
8. Differentiate a nevus and melanoma.
9. Exophthalmos.
10. Dendritic corneal ulcer.
11. Staphyloma.

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - 26-Jul-2021

Time: Three Hours **Max. Marks: 80 Marks**

DISPENSING OPTOMETRY AND OCCUPATIONAL OPTOMETRY
SECTION A: DISPENSING OPTOMETRY – (40 MARKS)
(REVISED SCHEME – 3)
Q.P. CODE: 3125

Your answers should be specific to the questions asked
Draw neat, labeled diagrams wherever necessary
(Note: Both QP Codes 3125 and 3126 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer Any Two) **2 x 10 = 20 Marks**

1. Explain the various types of PAL designs. Discuss the advantages and disadvantages of PALS.
2. A 25 year old male patient c/o frame keeps slipping downwards. He is using rimless frame from 6 months. On examination you find temples are spread too far. How will you check for Temple's alignment?
3. Write in detail the steps involved in surfacing.

SHORT ESSAYS (Answer Any Two) **2 x 5 = 10 Marks**

4. Write a note on selecting frame for the High Plus wearer.
5. Explain briefly about frame repair.
6. Briefly explain the image jump in bifocal lenses.

SHORT ANSWERS **5 x 2 = 10 Marks**

7. Splay angle
8. Retroscopic tilt
9. Negative face form
10. Photochromic lenses
11. Aspheric lenses

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - 26-Jul-2021

Time: Three Hours **Max. Marks: 80 Marks**

DISPENSING OPTOMETRY OCCUPATIONAL OPTOMETRY
SECTION B – OCCUPATIONAL OPTOMETRY (40 MARKS)
(REVISED SCHEME – 3)
Q.P. CODE: 3126

Your answers should be specific to the questions asked
Draw neat, labeled diagrams wherever necessary
(Note : Both QP Codes 3125 and 3126 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any Two) **2 x 10 = 20 Marks**

1. Describe role of Optometrist in diabetic retinopathy screening?
2. Write about importance of occupational safety? Explain in detail about ocular protection recommended for various occupation.
3. Write about the objective and activities of blind school.

SHORT ESSAYS (Answer any Two) **2 x 5 = 10 Marks**

4. Write on ocular effect of IR and UV radiation.
5. Write about acid and Alkali burns? Give an example of occupation related to chemical injury.
6. Write in detail about code of ethics.

SHORT ANSWERS **5 x 2 = 10 Marks**

7. Target Disease of Vision 2020.
8. Protective equipment for welders.
9. Nutritional Blindness.
10. Occupational Optometry.
11. Occupational Health and Hygiene.

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - 28-Jul-2021

Time: Three Hours **Max. Marks: 80 Marks**

Paediatric Optometry, Binocular Vision and Advanced Optometry
(Revised Scheme – 3)
Q.P. CODE: 3127

Your answers should be specific to the questions asked
Draw neat, labeled diagrams wherever necessary

LONG ESSAYS (Answer Any Three) **3 x 10 = 30 Marks**

1. Write a note on congenital anomalies of the cornea.
2. Explain motor evaluation.
3. What is amblyopia? Explain the management.
4. Define, classify types of nystagmus and explain one type in detail.

SHORT ESSAYS (Answer Any Six) **6 x 5 = 30 Marks**

5. Write a note on park three step test with two examples.
6. Write a note on Myopia and its management.
7. Write a note on worths four dot test.
8. Describe about the non-surgical management of strabismus.
9. Write a note on Bruckner's test.
10. Write a note on Dissociated vertical deviation.
11. Bilateral 4^{th} nerve palsy

SHORT ANSWERS **10 x 2 = 20 Marks**

12. Define Hering's law.
13. What is the use of anaglyphic filter?
14. What is cover test?
15. What is Axenfield –Reigers anomaly?
16. Write name of two vision therapy exercise for suppression.
17. What is birth asphyxia?
18. What is photorefraction?
19. What is exercising prism?
20. What is Brown's syndrome?
21. What is sea saw nystagmus?

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