Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - SEP-2019

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 in detail how a Law Vision Aid specialist can help a patient of Law Vision with reduced visual field.
2. Write in details on corneal and lenticular changes that occurs in the elderly patient.
3. Write in brief about vascular disorder due to old age.
4. Describe the amsler grid testing and its impact on low vision prescription.

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

5. Write short note on Guidelines and training to use various aids
6. Visual rehabilitation of a patient with Albinism.
7. Describe any one method of contrast sensitivity testing.
8. Write short note on dispensing Contact lenses in elderly
9. Write in detail about the different macular function test used in ARMD.
10. Briefly explain the systemic diseases associated with aging
11. Explain aetiopathogenesis of diabetic retinopathy

SHORT ANSWERS 10 x 2 = 20 Marks

12. Glare Control Device
13. Refractive changes due to uveitis
14. Bioptic telescope.
15. Enlist the type of near visual acuity chart
16. Define social blindness
17. Parkinson’s disease
18. Role of rehabilitation centre in India
19. Atherosclerosis
20. FFA
21. CRVO

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - OCT-2019

Time: Three Hours | Max. Marks: 80 Marks

Contact Lens
(Revised Scheme – 3)
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. Corneal physiological changes that happens to cornea due to contact lens wear
2. Write in detail about lens care, hygiene and instructions given while dispensing the soft contact lens.
3. Explain in detail about the components of fitting evaluation in RGP lens fitting.
4. Note on contact lens manufacturing techniques used in the current contact lens market.

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

5. Ideal contact lens material properties
6. Various stabilization techniques used in soft toric lens design
7. Short note on bifocal contact lens
8. What are the different modalities of wear? Give one example under each category.
9. Difference between papillae and follicle. Management of contact lens induced papillary conjunctivitis.
10. What is the FDA classification for soft contact lenses? Explain with an example.
11. Write the parameters of following lenses available in the Indian Market.
    (a) Purevision 2
    (b) Acuvue 2

SHORT ANSWERS 10 x 2 = 20 Marks

12. Extended keratometry
13. Indication for Bandage contact lens
14. Sag of lens
15. BOZR
16. CLPU
17. Silicon hydrogel lenses are more prone for protein deposits. True / False. Justify your answer.
18. Accommodation and contact lens
19. Non-tear related deposits
20. Holden Mertz criteria for oxygen requirement for Daily wear and Extended wear
21. Wettability and its importance

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - OCT-2019

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 3124 are to be answered within total duration of 3 hours)

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

1. Describe the difference between benign and malignant tumours.
2. Describe the aetiology, clinical features and management of dysthyroid ophthalmopathy.
3. Describe the types of leprosy, their histopathology and clinical features.

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

4. Diabetic retinopathy
5. The eye in vitamin “A” deficiency
6. Tertiary syphilis

SHORT ANSWERS 5 x 2 = 10 Marks

7. Ghon’s lesion
8. Neovascularisation
9. Syphilitic gumma
10. Teratoma
11. AFB

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - OCT-2019

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. Discuss the changing scenario in diverse refractive procedures and measures.
2. How would you evaluate the integrity of the visual pathways? Discuss briefly about localization of their lesions.
3. What is CLARE? Give a brief idea with diagram.

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

4. Write a short note on vernal keratoconjunctivitis.
5. Discuss the differential diagnosis and management of unilateral Ptosis.
6. Give a brief idea about diabetic maculopathy.

SHORT ANSWERS 5 x 2 = 10 Marks

7. Pinguecula.
8. Hypopyon.
9. Dyschromatopsia.
10. Orbital Cellulitis.
11. Anterior Staphyloma.

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - OCT-2019

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 should be answer within total duration of three hours)

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

1. Describe the datum and boxing systems of measurements the help of suitable diagrams.
2. Describe in detail the process of surfacing of a glass. Explain the various defects in manufacturing of glass.
3. Describe spherical aberration. Discuss the effect of this aberration in spectacle lenses.

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

4. Explain advantages of plastic lenses over glass.
5. Explain about frame repair.
6. Discuss the importance of the fitting triangle as a foundation for spectacle adjustment.

SHORT ANSWERS 5 x 2 = 10 Marks

7. Chromatic aberration
8. Explain the term front till bend and length till bend.
9. What is frame front?
10. Glass cement
11. Explain the term segment height.

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Rajiv Gandhi University of Health Sciences, Karnataka

III year B.Sc. Optometry Degree Examination – OCT-2019

Time: Three Hours | Max. Marks: 80 Marks

Dispensing Optometry and 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 should be answered within total duration of three hours)

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

1. What are the effects of UV and IR radiations? What are the preventive measure and treatment for the same?
2. Code of ethics, laws governing optometric practice in India – your suggestions.
3. Write a note on non mechanical ocular injuries.

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

4. Write about advantage of vision screening to industry.
5. Objective and activities of scheme for incumbents in blind schools.
6. Write short note on visual requirements, standards for different jobs.

SHORT ANSWERS 5 x 2 = 10 Marks

7. IOFB
8. Any two effect of visual display units on eye
9. The protective equipment is essential for a welder.
10. What is school vision screening programme?
11. Target diseases under vision 2020 programme.

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - APRIL-2019

Time: Three Hours Max. Marks: 80 Marks

Low Vision Aids and Geriatric Optometry

Q.P. CODE: 3121

Revised Scheme - 3

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. Assessment and management of a 10 year old school going child with optic atrophy
2. A 74-year-old patient using optimal reading glasses incorporating a +4.00 addition achieves N10 print in appropriate lighting at a working distance of 25 cm. His desire is to read N5 newsprint how would you approach this patient.
3. Briefly explain Spectacle dispensing in elderly –Considerating the spectacle lenses and frames.
4. Briefly explain Optometric Examination of the Older Adult.

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

5. Management of senile cataract
6. The general point to remember while prescribing to a child with low vision
7. Write short note on Condions causes central field defects.
8. Practical relevance of contrast sensitivity in LVA
9. Briefly describe the Management of glare.
10. Briefly explain the systemic diseases associated with aging.
11. Write in detail about the different macular function test used in ARMD.

SHORT ANSWERS 10 x 2 = 20 Marks

12. Relative distance enlargement
13. Name the macular disorder.
14. Enlist the type of near visual acuity chart.
15. Define economic blindness.
16. Describe reading stand and its uses.
17. Orthopedic
18. What are the neurological changes associated with aging?
19. Atherosclerosis
20. Vertigo
21. FFA

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - OCT-2019

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 physiological diplopia and mention its clinical significance.
2. Write a note on third nerve palsy and draw hess charting for the condition.
3. Write a note on etiology of pediatric cataracts.
4. What is non refractive accommodative esotropia? How you will manage the patient of Non refractive accommodative esotropia?

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

5. Write a note on application of red and green filter in orthoptics.
6. Write a note on difference between paralytic and Non paralytic squint.
7. Write a note on Accommodative insufficiency.
8. Write a note on management of nystagmus.
9. Enlist visual acuity chart used for pediatric population and explain Cardiff visual acuity cards in detail.
10. Write a note on cover test.
11. 6^{th} nerve palsy

SHORT ANSWERS 10 x 2 = 20 Marks

12. What is vieth-Muller circle?
13. Define hering's law with example.
14. What is APGAR score?
15. Write two name of the congenital disorders of uveal tract.
16. What is pseudotropia?
17. Name two orthoptic exercise used for accommodative insufficiency.
18. What is stiles Crawford effect?
19. What is relieving prism?
20. Define retinomotor value.
21. What is mohindra retinoscopy?

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - APRIL-2019

Time: Three Hours Max. Marks: 80 Marks

Pediatric Optometry, Binocular Vision and Advances in Optometry

Q.P. CODE: 3127

Revised Scheme - 3

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 cycloplegic refraction and its importance in pediatric patients.
2. Explain refractive accommodative esotropia and write a note on management of refractive accommodative esotropia.
3. Write a note on retinopathy of prematurity.
4. Write a note on amblyopia and its management.

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

5. Write a note on the management of congenital nasolacrimal duct obstruction.
6. Write a note on visual developmental milestone.
7. Classify exotropia and explain sensory exotropia in detail.
8. Write a note on worths four dot test.
9. What is stereopsis? Explain neurophysiology of stereopsis.
10. Write a note on origin, Course and insertion of LPS muscle.
11. Write a note on dissociated vertical deviation.

SHORT ANSWERS 10 x 2 = 20 Marks

12. What is sclerocornea?
13. What is past pointing?
14. Define Donder's law.
15. Give two examples of synergist muscle.
16. What is vestibule ocular reflex?
17. Give name of two cycloplegic drugs commonly used for pediatric patients.
18. What is buphthalmos?
19. Name two congenital disorders of optic disc.
20. Name two vision therapy exercise which you will suggest in case of convergence insufficiency.
21. Write about blood supply of extra ocular muscle.

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