Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - 10-Dec-2020

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

LOW VISION AIDS AND GERIATRIC OPTOMETRY – (RS-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. What are the various type of near vision devices are available? Write the advantages and disadvantages of each device.
2. A 65/M pt complains of difficulty in vision for Reading and Distance last 2 months. Diagnosed as Proliferative Diabetic Retinopathy (PDR) and Neovascular Glaucoma in Both Eye. Pan retinal Photocoagulation (PRP) and Trabeculotomy has done both eye 1 month back. BCVA: OD - 6/120, OS - 6/60. With near add +3.00 N24 @ 33 cm. How will you manage this case?
3. What is Gerontology? Briefly mention the steps of geriatric ocular evaluation.
4. What is Albinism? What are the types of albinism? Mention low vision management of albino patient.

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. Draw the optics of Keplarian Telescope.

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

12. Write two causes may leads to peripheral field loss.
13. Apt 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 will be useful?
15. What is brunescence?
16. Name two different types Contact lenses specially used for Keratoconus.
17. Write few non-optical 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 software used in training for computer work in low vision.
21. What are the genes are responsible for Retinoblastoma?

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - 24-Aug-2020

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 details on corneal and lenticular changes that occurs in the elderly patient.
2. Elaborate the guidelines to determining, magnification and selecting low vision aids for distance and near.
3. Write in brief about vascular disorder due to old age.
4. Assessment and management of a 10-year-old school going child with albinism

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

5. Write short note on Guidelines & training to use various aids.
6. Projection magnifier.
7. Electro-optical devices.
8. Contact lens in low vision
9. Speech synthesizer and talking books
10. Discuss Age related macular degeneration.
11. Explain aetiopathogenesis of diabetic retinopathy.

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

12. Refractive changes due to uveitis
13. Typoscopes.
14. Enlist the type of near visual acuity chart
15. Define disorder, impairment and disability.
16. Parkinson’s disease
17. Morgagnian cataract
18. Devices for field enhancement
19. Atherosclerosis
20. Actinic keratosis
21. Fibre-Tipped pens.

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - 24-Aug-2020

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 details on corneal and lenticular changes that occurs in the elderly patient.
2. Elaborate the guidelines to determining, magnification and selecting low vision aids for distance and near.
3. Write in brief about vascular disorder due to old age.
4. Assessment and management of a 10-year-old school going child with albinism

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

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6. Projection magnifier.
7. Electro-optical devices.
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15. Define disorder, impairment and disability.
16. Parkinson’s disease
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18. Devices for field enhancement
19. Atherosclerosis
20. Actinic keratosis
21. Fibre-Tipped pens.

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - 14-Dec-2020

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. What is the mode of action of various ingredients of a soft lens multipurpose solution?
2. Define contact lens deposit. What are the factors influencing the formation of deposit on contact lens.
3. What is presbyopia? Describe the option to correct presbyopia with contact lenses available in India.
4. Write at least three types of patient in whom you will definitely not prescribe soft CL with explanation.

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

5. How dose the cornea receive oxygen during contact lens wear?
6. What are the prefitting parameters required prior to fitting a contact lens in a child?
7. Describe with details any two hypoxic complications of soft contact lenses.
8. Write briefly about Hybrid lenses.
9. Discuss the "criteria" for sleeting suitable patients for prescribing SCL and RGP lenses.
10. Role of corneal topography in fitting contact lenses
11. Write a short note on mechanical complication of silicone hydrogel.

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

12. V-gauge
13. Surface hydrophilicity
14. The indications for a toric contact lens
15. Piggy back
16. Two uses of tear film in contact lens wear
17. Tear Meniscus Height
18. HVID
19. Hybrid contact lenses
20. Corneal erosion
21. Radiuscope

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - 26-Aug-2020

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. What are the indications for use of contact lens in children? What are the different types of lenses available?
2. How would you assess the centration, movement and tightness of soft and RGP contact lens on eye?
3. Briefly explain common soft contact lens complication, causes and management.
4. In which patients you will never give any soft contact lenses. List situations where you necessarily chose soft lens over an RGP lens.

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

5. Discuss about prosthetic contact lenses
6. Write a note on solution hypersensitivity.
7. Write a short note on mechanical complication of silicone hydrogel.
8. Write note on inspection and verification of contact lens
9. Explain the term "BOZR" in respect to a "back surface" soft or RGP contact lens.
10. Write fitting philosophies for correcting Keratoconus.
11. Write short note on therapeutic contact lens.

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

12. V –gauge
13. Surface hydrophilicity
14. The indications for a toric contact lens
15. Piggy back
16. Two uses of tear film in contact lens wear
17. Tear Meniscus Height
18. HVID
19. Hybrid contact lenses
20. Corneal erosion
21. Radiuscope

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - 28-Aug-2020

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 etiology, etiopathogenesis, clinical signs, diagnosis and management of tuberculosis. Describe TB and eye.
2. Describe etiology, etiopathogenesis, clinical diagnosis and management of Diabetes Mellitus. Describe Diabetic retinopathy.
3. Describe etiology, etiopathogenesis, clinical diagnosis and management of Grave's disease.

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

4. Larva migrans
5. Leprosy and eye
6. Classify helminthiasis and write schistosomiasis.

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

7. Taenia solium
8. Syphilis and eye
9. Autosomal disorder
10. Ig M
11. Fundus

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - 16-Dec-2020

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. Elaborate on aetiology, clinical evaluation and management of Diabetic retinopathy. List down a few differential diagnosis for the disease.

2. Describe briefly on classifications, symptoms, signs and management of various conjunctivitis.

3. Describe the stages, clinical features and management of ROP.

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

4. What is Anisocoria? What are the symptoms, evaluation methods and management for Anisocoria?

5. Explain in detail about congenital and developmental anomalies of lacrimal system. Write about aetiology, signs and management.

6. Elaborate on classifications and management options of acquired cataracts.

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

7. Corneal dystrophy.
8. Differentiate episcleritis and scleritis.
9. Asteroid hyalosis.
10. Arthritis and eye.
11. Retinoblastoma.

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - 28-Aug-2020

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. Clinically evaluate the management of developmental cataract.
2. Describe briefly the origin, insertions and actions of the extra ocular muscles and discuss the functional basis of the various restrictive squints.
3. Explain about retinal detachment and its causes.

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

4. Write a short note on corneal ulcer.
5. Describe about the most helpful diagnostic tools for glaucoma.
6. Write short note on Macular function tests.

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

7. Blepharospasm.
8. The treatment procedures for keratoconus.
9. The treatment modality of allergic conjunctivitis.
10. Entropion.
11. Barrage laser

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - 2020

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

DISPENSING OPTOMETRY 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 overall frame adjustment?
2. Describe the datum and boxing system of measurement with the help of suitable diagram?
3. Write a short note on selecting frames for pediatric age group.

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

4. Write a note on Dispensing in Progressive Addition Lenses?
5. Write briefly about faults on the lens surface?
6. Write a short note on lens verification.

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

7. Frontal Angle.
8. Vertex Distance.
9. Pantoscopic tilt.
10. Antireflection coating.
11. UV absorbing lenses.

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - 31-Aug-2020

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

DISPENSING OPTOMETRY 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. A prescription reads as follows
   RE: -3.5Dsph/-1.0 D cyl x90^0
   LE: -5.5 Dsph/-1.50 D cyl X 90^0
   How much vertical imbalance is present for reading level 10mm below the distance optical centers?
2. Describe the Measurements of assorted faces for spectacle.
3. Discuss the characteristics of photochromic glass. Under what condition does photochromic material function most efficiently?

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

4. Explain what is meant by the term equi-tint and describe the various type of Equi-tint filters.
5. Describe the various characteristic of safety lenses.
6. Discuss the importance of the fitting triangle as a foundation for spectacle adjustment.

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

7. Image jump
8. What is ED
9. Neutral grey filtes
10. Toughened lenses
11. Ultra –violet radiation

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - 2020

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 are to be answered within total duration of 3 hours)

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

1. What are the occupational hazards occurs in Visual Display Unit workers? What are the advice you provide to reduce those hazards?
2. Write detail of UV radiation effect on eye. What preventions should be taken care to reduce the damage?
3. What are the causes of sharp injury of eye? What are the damages it may cause in eye? What are the occupations are in high risk of penetrating and perforating injury? How it can be protected? What you will do on such emergency?

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

4. Write a short note on alkali injury and eye.
5. Write a short note on biological hazard and eye.
6. What are the ocular changes happen in blunt injury?

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

7. Write two communicable eye diseases and modes of communication of them.
8. Write the cause and changes happen in siderosis bulbi.
9. What should be illumination ratio in workplace as per IESNA?
10. What are the damage produce by laser in eye?
11. For a carpenter in cold weather which lens material you will prefer and why?

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - 31-Aug-2020

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. Evaluate strategies to reduce childhood blindness in the vision 2020 programme
2. Write in detail on the lenses and filter used for the industrial safety eye protection.
3. Discus in detail on the two-emergency eye condition where copious amount of water is the first line of treatment at the site of accident

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

4. Briefly explain Pre-employment eye examination.
5. Write a note on the role of optometrist in primary eye care and occupational optometry
6. Write down the material for construction of eye protectors

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

7. Write any two effects of UV radiation on eye.
8. Occupational hygiene.
9. First aid for chemical injury to eye
10. Indication for protective glasses
11. Type of eye camps

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - 21-Dec-2020

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. Binocular Single Vision - Definition, development, grades and anomalies.
2. Write in detail about the management guidelines for prescribing refractive error corrections in child of 3 years of age. Also add a note on qualitative visual assessment methods used in a preverbal child.
3. Write in brief about the mechanism of binocularvision.
4. Write in brief about nystagmus.

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

5. Cover tests.
6. Anomalous Retinal Correspondence.
7. How does the pediatric history taking vary as compared to general population?
8. Paralytic squint.
9. Maddox Rod test.
10. Explain DVD.
11. Prism bar cover test.

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

12. Forced Duction test.
13. Antagonists.
14. Explain Sherrington's law with example.
15. Define corresponding points.
16. List down the management options available for nystagmus among pediatric population.
17. Enlist the various visual acuity charts available for different age groups in pediatric population.
18. Krimsky's corneal reflex.
19. Nerve supply of extra ocular muscles.
20. Name the two test for suppression. Explain anyone.
21. Saccade and Pursuit.

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - 02-Sep-2020

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. Briefly explain the Development of Binocular vision.
2. Briefly explain Nystagmus – definition, classification and clinical evaluation.
3. Write a note on (a) Definition of Esotropia (b) Classification of Esotropia (c) Manageme accommodative Esotropia.
4. Write briefly about congenital glaucoma.

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

5. Brief on contact lens materials used in pediatric patients.
6. Short note on Teller acuity chart
7. Explain TNO test
8. Brown Syndrome
9. Short note on A-V phenomena.
10. Describe about APGAR scorring
11. Explain Pseudoesotropia

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

12. Crossed diplopia
13. Y Pattern of deviation
14. Corneal Xerosis
15. Optokinetic nystagmus
16. Worth 4 dot test.
17. Eccentric fixation
18. Aneisokonia.
19. Yoke muscles
20. Explain Cover Uncover test.
21. Ametropic amblyopia

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