Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - MAR/APR 2017

Time: Three Hours | Max. Marks: 100 Marks

Low Vision Aids and Geriatric Optometry

Q.P. CODE: 1636

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

LONG ESSAYS (Answer any Four) 4 x 10 = 40 Marks

1. Discuss the visual problems associated with acromatopsia and how you can manage it.
2. Discuss the various approaches to rehabilitation of the visually handicapped.
3. Write in brief about vascular disorder due to old age.
4. Briefly explain Optometric Examination of the Older Adult.
5. Briefly describe the near visual acuity measurement for low vision patient and its importance in selecting magnification.

SHORT ESSAYS (Answer any Eight) 8 x 5 = 40 Marks

6. Describe about sighted guide technique.
7. Explain the Eccentric viewing strategies.
8. Describe the refraction methods for low vision patient.
9. Write near add calculation done in LVA.
10. Visual rehabilitation of a patient with Albinism
11. Write a short note on electro optical device.
12. Write in brief about the rehabilitation in our country.
13. Briefly explain problem associated with the aging process.
14. Describe some structural changes of lid due to old age

SHORT ANSWERS 10 x 2 = 20 Marks

15. Telemicroscope
16. Describe the pine hole spectacle
17. Non optical device
18. Define low vision
19. Fresnel Lenses
20. Graves diseases
21. Alzheimer's disease
22. Log MAR
23. Refractive changes due to DM
24. Braille system

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - APRIL 2017

Time: Three Hours | Max. Marks: 100 Marks

Contact Lens

Q.P. CODE: 1637

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

LONG ESSAYS (Answer any Four) 4 x 10 = 40 Marks

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

SHORT ESSAYS (Answer any Eight) 8 x 5 = 40 Marks

6. FDA classification of soft contact lens.
7. What are therapeutic contact lens?
8. Write briefly Tear lens Role in RGP lens fitting.
9. Write short note on silicone hydrogels.
10. Write short note on Hydrogen peroxide system
11. What are the most common long-term problems of RGP
12. Write short note on 3 to 9 O' Clock Staining
13. What are the techniques for stabilizing the toric contact lenses?
14. Mention three differences in fitting contact lens in children and adults.

SHORT ANSWERS 10 x 2 = 20 Marks

15. Base curve (BC)
16. Oxygen transmissibility
17. Push up test
18. Corneal Warpage
19. Optic zone
20. Wettability
21. Vogt's striae
22. Dimple veiling
23. X –chrome lenses
24. Piggy back lens

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - APRIL 2017

Time: Three Hours | Max. Marks: 100 Marks

Systemic Diseases & Ocular Diseases

Section A: Systemic Diseases - 50 Marks

Q.P. CODE: 1638

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

(Note: Both QP Codes 1638 and 1639 are to be answered within total duration of 3 hours)

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

1. Describe etiology, etiopathogenesis and clinical management of diabetes mellitus. Write on diabetic retinopathy.
2. Describe etiology, etiopathogenesis and clinical management of systemic hypertension. Write on hypertensive retinopathy.
3. Describe embolism. Write in detail rheumatic fever.

SHORT ESSAYS (Answer any Four) 4 x 5 = 20 Marks

4. Immunoglobulins
5. Syphilis
6. Larva migrans
7. Vitamin deficiencies
8. Retinoblastoma

SHORT ANSWERS 5 x 2 = 10 Marks

9. Fundus
10. Cystecercosis
11. Leprosy and eye
12. Thyroid and eye
13. Classify helminthiasis.

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - APRIL 2017

Time: Three Hours | Max. Marks: 100 Marks

Systemic Diseases & Ocular Diseases

Section B: Ocular Diseases - 50 Marks

Q.P. CODE: 1639

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

(Note: Both QP Codes 1638 and 1639 are to be answered within total duration of 3 hours)

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

1. Classification of conjunctivitis and its management.
2. Write a short note on lacrimal system with diagram.
3. Give a brief idea about scleritis and episcleritis

SHORT ESSAYS (Answer any Four) 4 x 5 = 20 Marks

4. Etiopathogenesis of age related cataract
5. Write short note on Macular function tests.
6. Write about the various Tear Function Tests.
7. Give a brief idea about diabetic maculopathy.
8. Discuss differential and management of unilateral orbital cellulitis

SHORT ANSWERS 5 x 2 = 10 Marks

9. Vogt's Striae
10. Proptosis.
11. Pinguecula.
12. Hypopyon.
13. Kochar syndrome

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - APRIL 2017

Time: Three Hours Max. Marks: 50 Marks

Dispensing Optometry (Section A)

Q.P. CODE: 1640

Your answers should be specific to the questions asked
Draw neat, labeled diagrams wherever necessary
(Note: Both QP codes 1640 and 1641 should be answer within total duration of three hours)

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

1. What is protective lens? What type of frame and lenses are usually chosen for eye protection?
2. Discuss the role of prescribing special lenses to reduce ---- occupational hazards at work places, industrial accidents and injuries and special requirements for prescribing lenses for sportsperson
3. Describe the measurements of assorted faces for spectacle.

SHORT ESSAYS (Answer any Four) 4 x 5 = 20 Marks

4. Explain advantages of plastic lenses over glass.
5. What are the points to be checked in verification of spectacles of a patient complaining of intolerance to recently prescribed bifocal glasses?
6. Describe the problems that a patient may face after wearing wrongly centered progressive lens.
7. Describe the effects of distortion in high powered plus and minus spectacle lenses.
8. Brief on types of progressive lens designs.

SHORT ANSWERS 5 x 2 = 10 Marks

9. Explain the term segment height and segment depth.
10. Pantoscopic tilt
11. Verifocal lenses
12. Glass cement
13. PMMA

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Rajiv Gandhi University of Health Sciences, Karnataka

III year B.Sc. Optometry Degree Examination – APRIL 2017

Time: Three Hours Max. Marks: 50 Marks

OCCUPATIONAL OPTOMETRY (SECTION – B)

Q.P. Code: 1641

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary

(Note: Both QP codes 1640 and 1641 should be answered within total duration of three hours)

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

1. Describe screening programme for school children at the community level and its importance.
2. The facility of health insurance has been beneficial for the public. Discuss the objectives, facilities, limitations of Health Care Insurance.
3. Briefly note down visual requirements, standards for different jobs.

SHORT ESSAYS (Answer any four) 4 x 5 = 20 Marks

4. Good primary health care is the backbone of a good health care service. Discuss.
5. Discus the problem and solution at the VDT work station
6. Write on the ocular effect of IR and UV exposure
7. Write about Serious Professional Misconduct, according to Medical council of India.
8. Write about acid and alkali burns

SHORT ANSWERS 5 x 2 = 10 Marks

9. Vision 2020
10. First aid for chemical injury to eye
11. Write the important kinds of ethics.
12. IOFB
13. Type of eye camps

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - April 2017

Time: Three Hours Max. Marks: 100 Marks

Paediatric Optometry, Binocular Vision and Advanced Optometry

Q.P. CODE: 1642

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

LONG ESSAYS (Answer any Four) 4 x 10 = 40 Marks

1. A 64-year-old man presents to you with new onset of “crossed-eyes”. His left eye can’t move out laterally and he has a chronic mild headache that he attributes to eyestrain. What can be the best possible diagnosis from given detail and how you will manage the case?
2. Write a note on congenital glaucoma.
3. Write a note on pathophysiology of amblyopia and explain its management.
4. What is Aniseikonia? Write a note on clinical measurement technique of aniseikonia.
5. Write a note on congenital anomalies of uveal tract.

SHORT ESSAYS (Answer any Eight) 8 x 5 = 40 Marks

6. Write a note on divergence insufficiency.
7. Write a note on neurophysiology of ARC. Explain one test for ARC.
8. Write a note on Dissociated horizontal deviation.
9. Write a note on clinical features of Bilateral 4^{th} nerve palsy
10. Write a note on theories of binocular vision.
11. Write a note on management of hyperopia in case of pediatric patient.
12. Write a note on congenital ptosis.
13. Write a note on origin course and insertion of Inf. Oblique muscle.
14. Chemodenervation

SHORT ANSWERS 10 x 2 = 20 Marks

15. What is location and localization?
16. Define longitudinal horopter.
17. What is ankyloblepheron?
18. What is spherophakia?
19. What is aniridia?
20. Define Heterotropia.
21. Write two names of test used to check suppression
22. What is accommodative facility?
23. What is Brown’s syndrome?
24. What is hetrochromia iridis?

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - MAR/APR 2017

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. Describe any five diseases condition related to aging. Explain their features and possible treatment.
2. Enumerate common disorders leading to low vision.
3. Write in detail about problems and management of the following:-
   a) Glaucoma
   b) Age related macular degeneration
4. Briefly write about physiological changes in cornea and lens due to aging

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

5. Write a short note on different low contrast Visual acuity chart.
6. Describe some structural changes of lid due to old age.
7. Write a short note on accommodation and aging.
8. Difference between hand and stand magnifier.
9. describe near add calculation done in LVA
10. Describe briefly the devices used for the control of glare.
11. Classification of low vision.

SHORT ANSWERS 10 x 2 = 20 Marks

12. Relative size magnification.
13. Parkinson's disease
14. Bailey-lovie chart
15. Talking book
16. Describe confrontation test.
17. Describe reading stand and its uses.
18. Define low vision.
19. Hypertention
20. Non optical aids
21. Seborrhic keratosis

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - APRIL 2017

Time: Three Hours | Max. Marks: 80 Marks

Contact Lens

Q.P. CODE: 3122

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. What are the corneal complications that occur with the use of soft conact lens? What is the appropriate management for this condition?
2. Briefly discuss on tear related deposit and their management.
3. In which patients you will never give any soft contact lenses. List situations where you necessarily chose soft lens over an RGP lens.
4. Write in details about the manufacturing of soft contact lens

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

5. FDA classification of soft contact lens and gives some example for each group.
6. Write about various method of disinfecting SCL
7. Explain the various stages of CLPC with their management.
8. Write sort note on the basic types of disposable contact lenses
9. Write fitting philosophies for correcting Keratoconus.
10. Write note on inspection and verification of contact lens.
11. Write short note on scleral contact lens

SHORT ANSWERS 10 x 2 = 20 Marks

12. Oxygen flux
13. Dynamic stabilization
14. Name few CL deposits
15. Dimple Veiling
16. Wetting angle
17. Lid Tone
18. Name any two contact lenses that can fit irregular cornea
19. Fluorescein staining
20. Apical toricity
21. Hydrophobic Contact Lens

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - APRIL 2017

Time: Three Hours Max. Marks: 80 Marks

Systemic Diseases Ocular Diseases

Q.P. CODE: 3123

Section A – Systemic Diseases (40 Marks)

Revised Scheme - 3

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 pathophysiology, classification and management of Diabetic Mellitus.
2. Explain the pathophysiology, classification and diagnosis of hypertension
3. Define neoplasm. Classify them and discuss the pathogenesis of malignant neoplasm

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

4. Graves disease
5. Sjogren's syndrome
6. Pulmonary embolism

SHORT ANSWERS 5 x 2 = 10 Marks

7. Vitamin A deficiency
8. Chemotherapy
9. Immunoglobulin E (IgE)
10. Name thyroid hormones
11. Retinoblastoma.

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - APRIL 2017

Time: Three Hours Max. Marks: 80 Marks

Systemic Diseases Ocular Diseases

Q.P. CODE: 3124

Section B – Ocular Diseases (40 Marks)

Revised Scheme - 3

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. Diseases and developmental anomalies of lens and its management.
2. How would you evaluate the integrity of the visual pathways? Discuss briefly about localization of their lesions.
3. Brief on classification of Glaucoma and mention its management.

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

4. Briefly write about keratoconus.
5. Write a short note on vernal keratoconjunctivitis.
6. Discuss the differential diagnosis and management of unilateral ptosis

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 - APRIL 2017

Time: Three Hours Max. Marks: 80 Marks

Dispensing Optometry Occupational Optometry

Q.P. CODE: 3125

Section A – Dispensing Optometry (40 Marks)

Revised Scheme - 3

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. Do you feel occupational dispensing has any significant role in preventing or minimizing occupational hazards? Explain with suitable examples.
2. Briefly explain about photochromatic lens.
3. What is PAL? Write about the indications and contraindications of PAL.

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

4. What are the different types of spectacle frame available?
5. Explain about Aspheric lenses in detail.
6. Describe the Industrial and Sports eye protection in relation to ophthalmic dispensing.

SHORT ANSWERS 5 x 2 = 10 Marks

7. High index lens
8. Chromatic abberation
9. Mechanical requirements of bifocal lenses
10. Facial wrap
11. Abbe value

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - APRIL 2017

Time: Three Hours Max. Marks: 80 Marks

Dispensing Optometry Occupational Optometry

Q.P. CODE: 3126

Section B – Occupational Optometry (40 Marks)

Revised Scheme - 3

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 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. What are the factors that affect the health of a man's safety at work?
5. Write about advantage of vision screening to industry.
6. Objective and activities of scheme for incumbents in blind schools

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 2017

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. What is horopter? Draw a labelled diagram of horopter and explain in detail.
2. Write a note on clinical evaluation of ptosis.
3. Write a note on essential infantile esotropia.
4. Enlist congenital anomalies of the cornea explain one in detail.

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

5. Draw a labelled diagram of physiological diplopia.
6. Write a note on stereopsis.
7. Draw diplopia charting for bilateral 6^{th} nerve palsy.
8. Enlist different test done for ARC. Explain after image test with figure.
9. Write a note on pediatric spectacle dispensing.
10. Enlist congenital anomalies of lid. Explain one in detail.
11. What is A-V Pattern? Write down the management of A-V Pattern.

SHORT ANSWERS 10 x 2 = 20 Marks

12. What is interoceptive stimuli? Give two examples of interoceptive stimuli.
13. Name two condition where you would like to do forced duction test.
14. What is jaw winking phenomenon?
15. What is DVD?
16. Define yoke muscle and give two examples of yoke muscles.
17. What is epiblepheron?
18. Write name of two congenital disorders of lacrimal system.
19. Define listing's law.
20. What is congenital districhiasis?
21. What is ophthalmia neonatorum?

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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 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. What are acquired heart diseases? Explain pathophysiology, diagnosis, complication and management of rheumatic fever.

2. List thyroid hormones and their function. Write briefly the etiology, clinical features, diagnosis and treatment of hyperthyroidism. Write a note on exopthalmos.

3. What is Immunology? Write in brief about Immunology.

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

4. Define diabetes mellitus. Discuss occular manifestation of diabetes mellitus.
5. Brief note on genetic disorders and their diagnosis.
6. What do you mean by neoplasia and cancer? Discuss the warning signs and principle of treatment in cancer.

SHORT ANSWERS 5 x 2 = 10 Marks

7. Causes of secondary hypertension.
8. What is Bitot's spot?
9. Cysticercosis.
10. Mention drugs used in tuberculosis.
11. Transmission of toxoplasmosis to eye.