Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - 30-May-2024

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. Enumerate members of low vision tam and their role
2. Write in detail about problems and management of the following
   a) Glaucoma
   b) Age related macular degeneration
3. Explain the low vision management options for visual field loss patients
4. Brief about non-optical devices. Write about systemic search approach

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

5. Differentiate methods of low vision assessments for young children with low vision
6. Near vision charts
7. Bioptic telescope
8. Low vision management for albirism
9. Physiological and pathological retinal changes in geriatric population
10. Differences between Keplerian and Galilean Telescopes
11. Structural and physiological changes in eye lids

SHORT ANSWERS 10 x 2 = 20 Marks

12. Define low vision
13. Color vision enhancement
14. Types of nystagmus
15. Amsler grid assessment in low vision
16. Legal blindness
17. Steps in rehabilitation
18. What is handicap?
19. Draw the anatomy of the adult lens and name the parts
20. Name three changes which occur with age in cornea
21. What is Madarosis?

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - 03-Jun-2024

Time: Three Hours | Max. Marks: 80

CONTACT LENS - (RS-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. Describe a hypoxia related complication for soft contact lens?
2. Explain the manufacturing methods for RGP contact lens with advantages and disadvantages
3. Explain contact lens options available for keratoconus subjects and describe the fitting philosophies for the same
4. Write a difference between soft spherical and soft toric contact lens and explain various stabilization methods

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

5. Describe the soft contact lens fitting assessment in detail
6. Write a short note on soft contact lens materials
7. Describe indication and contraindication for RGP contact lens
8. Describe indication for therapeutic contact lens
9. What is CLPC? Describe in detail about the CLPC
10. Write a short note on pediatric contact lens fitting
11. Write a short note on care and maintenance of RGP contact lens

SHORT ANSWERS 10 x 2 = 20 Marks

12. Contact lens deposits
13. Radiuscope
14. 1 step Hydrogen peroxide
15. DK and DK/T
16. Daily wear and extended wear
17. LARS rule
18. Calculate a BVP for -5.00/-1.00 X 180
19. Draw a RGP CL design
20. Wettability
21. Monovision Contact lens

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - 05-Jun-2024

Time: Three Hours Max. Marks: 80

SYSTEMIC DISEASES AND OCULAR DISEASES (RS – 3)
Section A: SYSTEMIC DISEASES – (40 Marks)
Q.P. CODE: 3123

Your answers should be specific to the questions asked
Draw neat, labelled diagrams wherever necessary
(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. Define neoplasia. Discuss the etiology, difference between benign and malignant tumours
2. Classify hypertension. Discuss the risk factors, causes, clinical features, investigation and management of arterial hypertension
3. Discuss nutrition and eye health. Write briefly on nutritional disorders of the eye

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

4. Etiology, diagnosis and management of diabetic retinopathy
5. Management of rheumatic fever
6. List tropical diseases. Explain briefly on clinical features and management of malaria

SHORT ANSWERS 5 x 2 = 10 Marks

7. Cutaneous larva migrans
8. Drugs used for arthritis
9. Genetic counselling
10. Etiology and spread of tuberculosis
11. Immunoglobulins

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - 05-Jun-2024

Time: Three Hours Max. Marks: 80

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. Explain the etiology, signs, symptoms, types, treatment option and complications of retinitis pigmentosa
2. Write a short note on posterior uveitis
3. Explain the etiology, signs, symptoms, treatment option and complications of any two corneal ectasia conditions

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

4. Write about close angle glaucoma
5. Etiology, signs, symptoms and treatment options of different types of conjunctivitis
6. Explain the etiology, signs, symptoms, treatment option and complications of ptosis

SHORT ANSWERS 5 x 2 = 10 Marks

7. Chalazion vs stye
8. Types of nystagmus
9. Viral keratitis
10. Adie’s pupil vs Horner’s syndrome
11. Cataract

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - 07-Jun-2024

Time: Three Hours Max. Marks: 80

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 selection of spectacle based on facial characteristics
2. Explain glazing and polishing of spectacle lens
3. What are PAL's? Write about the indications and contraindications of PAL's

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

4. Describe the steps involved in edging of plastic frames
5. Draw neat labelled diagram of progressive addition lenses
6. Describe the process of lens and frame selection

SHORT ANSWERS 5 x 2 = 10 Marks

7. Define the three methods of identifying lens faults
8. Define shadowing
9. Define image jump
10. Vertex distance
11. List the three limitations of bifocal lens

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - 07-Jun-2024

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. Brief note down visual requirements, standards for different jobs.
2. Define public health and how it evolved in India.
3. Explain PPE. List the different PPE's for any five occupations.

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

4. Visual effect on VDT users.
5. Write about IR and UV rays.
6. Classify hazards based on sources.

SHORT ANSWERS 5 x 2 = 10 Marks

7. Definition and units of Illumination.
8. Health workers and their role in community.
9. Vision 2020
10. Occupational health and hazards.
11. Expand : WHO, ILO, NIOH, ESI

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - 10-Jun-2024

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. Amblyopia - definition, clinical importance and methods of evaluation management.
2. Write in detail about the process of visual functional development under the heading of visual acuity, contrast sensitivity, eye movements, binocular function and color vision.
3. What is nystagmus? Describe about types and management.
4. What is DVD? Write clinical features and of nystagmus management of DVD.

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

5. Visual direction, localizing sign and corresponding points.
6. Strabismus - definition, broad classification and methods of evaluation.
7. Write in detail on the details of birth history to be taken in a pediatric patient.
8. Non-surgical management of strabismus.
9. Write a note on stages of retinopathy of prematurity and the role of optometrist in this conditions.
10. Prism bar cover test.
11. Explain tests for diplopia.

SHORT ANSWERS 10 x 2 = 20 Marks

12. Agonists.
13. Types of occlusion.
14. Suppression.
15. List down the conditions in which Leukocoria is observed.
16. What is Bruckner's test? What are the clinical conditions suspected with this test?
17. What are the various management options of myopia progression control in the clinical practice?
18. Uses of binocular single vision.
19. Worth Four dot test.
20. Define empirical cues.
21. Explain Hering's law with example.

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination – 30-May-2024

Time: Three Hours | Max. Marks: 100 Marks

LOW VISION AIDS AND GERIATRIC OPTOMETRY (RS-4)

Q.P. CODE: 3351

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

LONG ESSAYS (Second Question Choice) 2 x 10 = 20 Marks

1. A 20 years old male patient complains of diminished vision for distance and near in both eyes since 3 years. He was unable to see black board and television clearly. He was diagnosed with macular degeneration in both eyes
   BCVA (OD): 1.0 Log MAR, (NV):0.8M@20cm, (OS):1.1 LogMAR (NV):0.8M@20cm. Explain on the workup, assessments, diagnosis and management option

2. Dispensing contact lens and spectacles in geriatric age group
   OR
   Briefly explain optometric examination of the geriatric population

SHORT ESSAYS (Question No 5 & 10 choice) 10 x 5 = 50 Marks

3. Briefly explain near add calculations done in LVA
4. Describe problem associated with the aging process
5. Briefly explain low vision assessment of the older people
   OR
   Short note on categories of low vision
6. Briefly explain contrast sensitivity assessment in low vision patient
7. Short note on radical retinoscopy with example
8. Describe structural changes of lid due to old age
9. Describe near vision devices used in low vision patients
10. Short note on Amsler grid chart
    OR
    Write a short note on guidelines and training to use various low vision aids
11. Write a short note on age related changes in spherical ametropia
12. Briefly about magnification in telescope

SHORT ANSWER 10 x 3 = 30 Marks

13. Enlist common eye disorder leading to low vision
14. WHO definition of low vision
15. Define legal blindness
16. Refractive changes due to DM
17. Importance of BI prism in spectacle magnifier
18. Kestenbaum’s rule
19. Clinical presentation of glaucoma
20. Fresnel prism
21. Neurological changes associated with aging
22. Bioptic telescope

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination – 03-Jun-2024

Time: Three Hours | Max. Marks: 100

CONTACT LENS (RS-4)

Q.P. CODE: 3352

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

LONG ESSAYS (Second Question Choice) 2 x 10 = 20 Marks

1. Write a short note on soft contact lens complication
2. Explain the RGP contact lens material in detail with advantages and disadvantages

   OR

   What is presbyopia? Explain in detail in about Monovision, Bifocal and Multifocal contact lens for presbyopia

SHORT ESSAYS (Question No 5 & 10 choice) 10 x 5 = 50 Marks

3. Describe the soft toric contact lens fitting in detail
4. Write a short note on mechanical complications of silicone hydrogel contact lens
5. Explain wearing and replacement modalities for contact lenses with example

   OR

   Write a short note on Prism ballast, truncation and Dynamic stabilization with advantages and disadvantages
6. Describe in detail about the 3 and 9 O' Clock staining
7. Write a short note on indication for pediatric contact lens
8. Write a short note on fitting philosophies of keratoconus
9. Explain in detail about components of care and maintenance of soft contact lenses with example
10. What is DK/t? Explain ideal contact lens material properties

    OR

    Explain the effect of blink on steep fitted and flat fitted contact lens
11. Explain contact lens deposits and its management
12. Explain the indication and contraindication of contact lens

SHORT ANSWER 10 x 3 = 30 Marks

13. Difference between static and dynamic RGP fitting
14. Difference between cosmetic and prosthetic contact lens
15. Optics of contact lens
16. FDA Classification for contact lens
17. Scleral contact lens
18. Dimple Veiling
19. Calculate a BVP for -7.00/2.00 X 10 and rotated right side for 10 degree and calculate the final contact lens power
20. X-chrome contact lens
21. Enlist two brands of soft contact lens parameters and company availability
22. Solution hyper sensitivity

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - 05-Jun-2024

Time: Three Hours | Max. Marks: 100 Marks

RESEARCH METHODOLOGY AND STATISTICS (RS-4)

Q.P. CODE: 3353

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

LONG ESSAYS (Second Question Choice) 2 x 10 = 20 Marks

1. Define correlation. Explain the various measures of correlations.

2. Briefly describe the various steps involved in research process.
   OR
   Define epidemiology. Describe descriptive epidemiology along with its methods and uses.

SHORT ESSAYS (Question No 5 & 10 choice) 10 x 5 = 50 Marks

3. Explain the various forms of diagrammatic presentation of data.
4. Define the various measures of central tendency.
5. Write a note on health information system.
   OR
   Mention the common indicators of mortality.
6. Mention the steps involved in testing of hypothesis.
7. Following data represents the waiting time (in minutes) of 11 patients before consultation. Calculate the mean, median and range
   13, 8, 11, 14, 9, 7, 15, 3, 6, 4 and 12
8. Define sampling. Enlist the various sampling techniques and explain any two sampling techniques.
9. Define standard deviation, coefficient and variation.
10. Distinguish between research methods and methodology.
    OR
    Mention the common indicator of morbidity.
11. Define biostatistics and mention its application in health sciences.
12. Describe the characteristics of a normal distribution curve.

SHORT ANSWER 10 x 3 = 30 Marks

13. Validity and reliability.
14. Discrete and continuous variable.
15. Epidemiology.
16. Fertility indicators.
17. Type I and Type II error.
18. Percentile.
19. Skewness.
20. Ratio and proportion.
21. Null and alternative hypothesis.
22. Kurtosis.

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination – 07-Jun-2024

Time: Three Hours | Max. Marks: 100

SECTION A: SYSTEMIC DISEASES (RS-4)

Q.P. CODE: 3354

Your answers should be specific to the questions asked
Draw neat, labelled diagrams wherever necessary
(Note : Both QP Codes 3354 and 3355 are to be answered within total duration of 3 hours)

LONG ESSAYS (Question No. 1 choice) 1 x 10 = 10 Marks

1. Define malnutrition and enumerate malnutrition disorders. Write briefly on nutritional eye disorders
   OR
   Pathophysiology, diagnosis, prevention and treatment modalities for genetic diseases

SHORT ESSAYS (Question No. 5 choice) 5 x 5 = 25 Marks

2. Discuss mode of spread, clinical manifestations, diagnosis and management of cytomegalo-virus infection
3. Write briefly on management of larva migrans
4. Essay on principles of immunity in health with emphasis on eye
5. Pathophysiology, classification and management of malignant hypertension
   OR
   Pathophysiology, complication, diagnosis and management of non insulin dependent diabetes mellitus
6. Explain the eye and connective tissue disorders

SHORT ANSWERS 5 x 3 = 15 Marks

7. Eye features seen in thromboembolism
8. Myxoedema
9. Cysticercosis
10. Modified Jones criteria for diagnosis of rheumatic fever
11. Define sarcoma and carcinoma with examples

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination – 07-Jun-2024

Time: Three Hours Max. Marks: 100 Marks

SECTION B: OCULAR DISEASES (RS-4)
Q.P. CODE: 3355

Your answers should be specific to the questions asked
Draw neat, labeled diagrams wherever necessary
(Note : Both QP Codes 3354 and 3355 are to be answered within total duration of 3 hours)

LONG ESSAYS (Question No. 1 choice) 1 x 10 = 10 Marks

1. Define Graves Ophthalmopathy, explain on pathogenesis, clinical features and management
   OR
   Define Cataract. Write on its classification, clinical features and management

SHORT ESSAYS (Question No. 5 choice) 5 x 5 = 25 Marks

2. Primary angle closure glaucoma
3. Blepharitis
4. Cavernous sinus thrombosis
5. Dry Eye
   OR
   Vitreous haemorrhage
6. Bacterial conjunctivitis

SHORT ANSWERS 5 x 3 = 15 Marks

7. Keratoconus
8. Define primary angle closure
9. Etiology of Epiphora
10. **Colour blindness**
11. Seidal scotoma

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - 10-Jun-2024

Time: Three Hours Max. Marks: 100 Marks

SECTION A : PRACTICE MANAGEMNT AND LAW IN OPTOMETRY (RS-4) (50 Marks)

Q.P. CODE: 3356

Your answers should be specific to the questions asked
Draw neat, labeled diagrams wherever necessary
(Note: Both QP Codes 3356 and 3357 are to be answered within total duration of 3 hours)

LONG ESSAYS (Question No.1 choice) 1 x 10 = 10 Marks

1. What are the advantages and disadvantages of an ethical code?
   OR
   What is inventory control? Write its importance.

SHORT ESSAYS (Question No.5 choice) 5 x 5 = 25 Marks

2. Mention the needs for record keeping.
3. What kind of action can be taken by the Medical Council of India for an act of misconduct on the part of a physician?
4. Who is licensure? What are all the requirements of a licensure?
5. What is the significance of staff management?
   OR
   Write a short note on journal and ledger.
6. Define public relations. How to decide if the public relations should be external or internal?

SHORT ANSWER 5 x 3 = 15 Marks

7. Who is a licensure under the medical equipment service provider act?
8. What are the main contents of medical records?
9. Write one small case law regarding medical negligence.
10. Write two circumstances in which a suit can be filed against an Optometrist.
11. Accounting cycle.

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - 10-Jun-2024

Time: Three Hours Max. Marks: 100 Marks

SECTION B : OCCUPATIONAL OPTOMETRY (50 Marks) (RS-4)

Q.P. CODE: 3357

Your answers should be specific to the questions asked
Draw neat, labeled diagrams wherever necessary
(Note: Both QP Codes 3356 and 3357 are to be answered within total duration of 3 hours)

LONG ESSAYS (Question No.1 choice) 1 x 10 = 10 Marks

1. Describe in detail about Occupational safety and its importance with examples.
   OR
   Enlist the occupations with risk of chemical hazards. How to control those hazards. Explain effect of acid burns the eye.

SHORT ESSAYS (Question No.5 choice) 5 x 5 = 25 Marks

2. Explain the pre-placement examination. Add the role of optometrist in pre-placement examination.
3. Explain effect of mechanical injury on the eye.
4. Effect of UV & IR radiation on the eye.
5. Explain in brief about computer vision syndrome.
   OR
   Explain the sources and measures to reduce air pollution.
6. Explain different occupational diseases associated with Welders. What are the preventive measures for the same?

SHORT ANSWER 5 x 3 = 15 Marks

7. Effect of visual display unit of Eye.
8. Visual standard for drivers.
9. IOFB.
10. Name three personal protective equipments to be used by a Welder.
11. Role of optometrist in occupational safety.

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination – 12-Jun-2024

Time: Three Hours | Max. Marks: 100 Marks

PAEDIATRIC OPTOMETRY, BINOCULAR VISION AND ADVANCED OPTOMETRY (RS-4)

Q.P. CODE: 3358

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

LONG ESSAYS (Second Question Choice) 2 x 10 = 20 Marks

1. Describe etiology, types and management of amblyopia
2. Explain clinical characteristics and classification of paralytic strabismus. Distinguish comitant squint from incomitant squint
   OR
   Describe the classification, investigations and management of convergent squint

SHORT ESSAYS (Question No 5 & 10 choice) 10 x 5 = 50 Marks

3. Short note on development of binocular vision
4. Describe the theories of binocular single vision
5. Explain physiological diplopia
   OR
   Mention the actions of individual extraocular muscle
6. Pediatric visual acuity charts available for various age groups
7. Describe the difference methods of measurement of accommodation
8. Write the clinical features and management of accommodative insufficiency
9. Write in detail about investigation of suppression
10. Write a note on paediatric spectacle dispensing
    OR
    Describe horopter and panum's fusional area with diagram
11. Write the clinical features and management of convergence excess
12. Explain different types of Daune retraction syndrome

SHORT ANSWER 10 x 3 = 30 Marks

13. Explain briefly retino-motor value
14. Describe cyclopean eye with example
15. Mention etiology of diplopia
16. Explain retinal rivalry
17. What is microtropia? What clinical test can detect the condition?
18. Write Donder's and Listing's law
19. What is pseudomyopia? Explain
20. What are the clinical features of Brown's syndrome?
21. Mention three difference between tonic and fusional convergence
22. Importance of history taking in paediatric practice

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - 13-Nov-2024

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. Enumerate the optics, uses, advantages and disadvantages of optical devices
2. Enumerate common disorders leading to low vision
3. Explain low vision rehabilitation in our country
4. A 62-year-old female has come she has been diagnosed with age related macular degeneration. Write in detail about problems and management

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

5. Types of magnifications with examples
6. Visual acuity assessment in low vision
7. Corneal opacity management
8. Explain eccentric viewing strategies
9. Refractive error changes in old age
10. Common vascular disorders in old age
11. Physiological and pathological changes happening in crystalline lens in geriatric population

SHORT ANSWERS 10 x 2 = 20 Marks

12. Calculate the magnification and tube length of telescope with objective lens power of +40.00 DS and eye piece power of + 15.00 DS
13. Null point in nystagmus and its importance in low vision management
14. Notex
15. What is JND?
16. Write two causes of color vision defect
17. Define low vision rehabilitation
18. Any two methods of dominant eye testing
19. Why BI prisms are used in spectacle magnifier?
20. Clinical sign of glaucoma
21. Management of presbyopia

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - 15-Nov-2024

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. Mention different contact lens materials. What are the indications and contraindications of contact lens usage?
2. Describe various Toric lens designs manufacturising techniques.
3. Briefly classify in detail the types of soft contact lens on the basis of their modality.
4. Explain preliminary measurement and investigation done before fitting CL.

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

5. Difference between continuous wear and extended wear soft contact lenses
6. Advantages of silicone hydrogel lenses over hydrogel lenses
7. Advantage and disadvantage of RGP contact lens
8. Write short note on different methods for corneal assessment before contact lens trial.
9. Write about various method of disinfecting SCL.
10. Brief on assessment of RGP lens fit
11. Write a short note on therapeutic soft contact lens.

SHORT ANSWERS 10 x 2 = 20 Marks

12. Oxygen permeability
13. FDA classification
14. Oxygen flux
15. Bifocal lenses
16. Corneal neovascularisation
17. Tear breakup time
18. Name any two contact lenses that can fit irregular cornea.
19. Fluorescein staining
20. Jelly bumps
21. Multi-purpose solution

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - 20-Nov-2024

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 is diabetes mellitus? Discuss in detail the classification, etiology, diagnosis and management of diabetes mellitus.
2. Explain in brief pathophysiology, prevention and treatment of genetic disorders.
3. What is Immunology? Write in brief about Immunology.

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

4. Nutritional disorder of Eye.
5. Etiology, clinical manifestation, diagnosis and treatment of pulmonary tuberculosis.
6. Classify heminthic diseases. Write brief note on schistosomiasis.

SHORT ANSWERS 5 x 2 = 10 Marks

7. Xeropthalmia.
8. What is Grave's disease?
9. Drugs used in treatment of hypertension.
10. Major johns criteria of rheumatic fever.
11. Difference between carcinoma and sarcoma.

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - 20-Nov-2024

Time: Three Hours Max. Marks: 80

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. Describe in detail about classification, clinical evaluation and management of cataract
2. Explain in detail about congenital and developmental anomalies of lacrimal system and its management
3. Explain the pathophysiology, etiology, clinical features, investigation and management of conjunctivitis

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

4. Define glaucoma. Write briefly on types, causes, diagnosis and treatment of glaucoma
5. Essay on dry eye syndrome
6. Clinical features, etiology and management of orbital cellulitis

SHORT ANSWERS 5 x 2 = 10 Marks

7. Marcus gun pupil
8. Difference between endopthalmitis and panopthlmitis
9. Fundal changes in diabetic retinopathy
10. Evaluation of proptosis
11. What is meant by Ectropion and Entropion?

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination – 13-Nov-2024

Time: Three Hours | Max. Marks: 100 Marks

LOW VISION AIDS AND GERIATRIC OPTOMETRY (RS-4)

Q.P. CODE: 3351

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

LONG ESSAYS (Second Question Choice) 2 x 10 = 20 Marks

1. Write in detail about optics and magnification of low vision devices
2. Write in detail about ocular condition in geriatric population
   OR
   Write in detail about ocular spectacle dispensing in elderly patient

SHORT ESSAYS (Question No 5 & 10 choice) 10 x 5 = 50 Marks

3. Write short note on Kubler – Ross theory
4. Write in detail about glare test in low vision patient
5. Briefly explain on refractive changes due to uveitis
   OR
   Explain etiopathogenesis of diabetic retinopathy
6. Briefly explain about electronic vision enhancement system
7. Write short note on functional vision assessment of low vision patients
8. Describe any two method of contrast sensitivity testing
9. Explain about refraction technique used in low vision
10. Briefly explain the importance of near vision chart in low vision examination
    OR
    Write a short note on low vision examination in children
11. Describe photo stress recovery test
12. Draw the optics of Galilean telescope

SHORT ANSWER 10 x 3 = 30 Marks

13. Enlist type of near vision chart used in low examination
14. What is atherosclerosis?
15. What are the genes are responsible for retinoblastoma?
16. What is telemicroscope?
17. Write two causes may leads to central field loss
18. Role of rehabilitation centers in India
19. CRAO
20. Enlist glare control devices
21. CCTV
22. Name three software used in low vision patients

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination – 15-Nov-2024

Time: Three Hours | Max. Marks: 100

CONTACT LENS (RS-4)

Q.P. CODE: 3352

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

LONG ESSAYS (Second Question Choice) 2 x 10 = 20 Marks

1. Describe a hypoxia related complication for soft contact lens?
2. Explain the manufacturing methods for RGP contact lens with advantages and disadvantages
   OR
   Explain contact lens options available for keratoconus subjects and describe the fitting philosophies for the same

SHORT ESSAYS (Question No 5 & 10 choice) 10 x 5 = 50 Marks

3. Describe the soft contact lens fitting in detail
4. Write a short note on soft contact lens materials
5. Describe indication and contraindication for RGP contact lens
   OR
   Write a short note on soft Toric stabilization
6. Describe indication for therapeutic contact lens
7. What is CLPC? Describe in detail about the CLPC
8. Write a short note on pediatric contact lens fitting
9. Write a short note on care and maintenance of RGP contact lens
10. What is wettability? Explain about measurement of wettability
    OR
    Explain the characteristic of Steep and flat fitted RGP Contact lens with diagram
11. Explain relationship between Base curve and sagittal height with diagram
12. Explain contact lens deposits and its management

SHORT ANSWER 10 x 3 = 30 Marks

13. CLARE
14. Radiuscope
15. Two step Hydrogen peroxide
16. DK and DK/T
17. Daily wear and extended wear
18. Optics of contact lens
19. Calculate multifocal contact lens power with one example of company availability
    RE : +3.00/-0.50X180
    LE : +1.00/-0.50X170
    BE : ADD +2.00 DSPH
20. Draw a RGP CL design
21. Sports and contact lens
22. Monovision Contact lens

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination – 20-Nov-2024

Time: Three Hours Max. Marks: 100

RESEARCH METHODOLOGY AND STATISTICS (RS-4)

Q.P. CODE: 3353

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

LONG ESSAYS (Second Question Choice) 2 x 10 = 20 Marks

1. Explain the different steps involved in the research process. What are the criteria of good research?
2. Explain the salient features of the research report

   OR

   What are the different types of sampling? Highlight their merits and demerits

SHORT ESSAYS (Question No 5 & 10 choice) 10 x 5 = 50 Marks

3. What is reliability? Mention it's types
4. Write the various properties and examples of nominal and ordinal scales of measurements
5. What is the difference between population and sample? Explain why samples are considered for the data collection rather than population

   OR

   What are the factors that affect the size of the sample?
6. What do you understand by a random number table? Where is the application of the same in research?
7. Write about the organization of data. Illustrate a Bar diagram in the organization of data with an example
8. Difference between dependent and independent variables. Give example
9. What do you understand hypothesis in research? Mention its type with an example
10. Virat Kohli scored the following runs in the last cricket World Cup: 11,63,3,49,82,62,12,64,26
    a) What will be the mean and median score?
    b) Mention the mode of the scores
    c) What will be the probability of getting an even score in the next match?

    OR

    Explain the role of the literature review
11. Write a short note on the concept, graphical form and properties of normal distribution with an example
12. Write a note on skewness and kurtosis

SHORT ANSWER 10 x 3 = 30 Marks

13. Explain data in research
14. What is health? What are the components of health?
15. Census vs hospital records
16. Define mortality, morbidity and fertility statistics
17. Characteristics of a good hypothesis
18. Uses of descriptive epidemiology
19. Give examples of dependent and independent variables
20. Criteria used in selecting the samples
21. Short note on the scatter diagram
22. Differentiate prevalence from incidence with an optometry research work

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - 13-Nov-2024

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. Enumerate the optics, uses, advantages and disadvantages of optical devices
2. Enumerate common disorders leading to low vision
3. Explain low vision rehabilitation in our country
4. A 62-year-old female has come she has been diagnosed with age related macular degeneration. Write in detail about problems and management

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

5. Types of magnifications with examples
6. Visual acuity assessment in low vision
7. Corneal opacity management
8. Explain eccentric viewing strategies
9. Refractive error changes in old age
10. Common vascular disorders in old age
11. Physiological and pathological changes happening in crystalline lens in geriatric population

SHORT ANSWERS 10 x 2 = 20 Marks

12. Calculate the magnification and tube length of telescope with objective lens power of +40.00 DS and eye piece power of + 15.00 DS
13. Null point in nystagmus and its importance in low vision management
14. Notex
15. What is JND?
16. Write two causes of color vision defect
17. Define low vision rehabilitation
18. Any two methods of dominant eye testing
19. Why BI prisms are used in spectacle magnifier?
20. Clinical sign of glaucoma
21. Management of presbyopia

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - 15-Nov-2024

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. Mention different contact lens materials. What are the indications and contraindications of contact lens usage?
2. Describe various Toric lens designs manufacturising techniques.
3. Briefly classify in detail the types of soft contact lens on the basis of their modality.
4. Explain preliminary measurement and investigation done before fitting CL.

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

5. Difference between continuous wear and extended wear soft contact lenses
6. Advantages of silicone hydrogel lenses over hydrogel lenses
7. Advantage and disadvantage of RGP contact lens
8. Write short note on different methods for corneal assessment before contact lens trial.
9. Write about various method of disinfecting SCL.
10. Brief on assessment of RGP lens fit
11. Write a short note on therapeutic soft contact lens.

SHORT ANSWERS 10 x 2 = 20 Marks

12. Oxygen permeability
13. FDA classification
14. Oxygen flux
15. Bifocal lenses
16. Corneal neovascularisation
17. Tear breakup time
18. Name any two contact lenses that can fit irregular cornea.
19. Fluorescein staining
20. Jelly bumps
21. Multi-purpose solution

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - 20-Nov-2024

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 is diabetes mellitus? Discuss in detail the classification, etiology, diagnosis and management of diabetes mellitus.
2. Explain in brief pathophysiology, prevention and treatment of genetic disorders.
3. What is Immunology? Write in brief about Immunology.

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

4. Nutritional disorder of Eye.
5. Etiology, clinical manifestation, diagnosis and treatment of pulmonary tuberculosis.
6. Classify heminthic diseases. Write brief note on schistosomiasis.

SHORT ANSWERS 5 x 2 = 10 Marks

7. Xeropthalmia.
8. What is Grave's disease?
9. Drugs used in treatment of hypertension.
10. Major johns criteria of rheumatic fever.
11. Difference between carcinoma and sarcoma.

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - 20-Nov-2024

Time: Three Hours | Max. Marks: 80

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. Describe in detail about classification, clinical evaluation and management of cataract
2. Explain in detail about congenital and developmental anomalies of lacrimal system and its management
3. Explain the pathophysiology, etiology, clinical features, investigation and management of conjunctivitis

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

4. Define glaucoma. Write briefly on types, causes, diagnosis and treatment of glaucoma
5. Essay on dry eye syndrome
6. Clinical features, etiology and management of orbital cellulitis

SHORT ANSWERS 5 x 2 = 10 Marks

7. Marcus gun pupil
8. Difference between endopthalmitis and panopthlmitis
9. Fundal changes in diabetic retinopathy
10. Evaluation of proptosis
11. What is meant by Ectropion and Entropion?

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - 22-Nov-2024

Time: Three Hours Max. Marks: 80

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 various frame manipulation techniques
2. A 55-year-old woman came for eye checkup who was found not having any exposure of wearing spectacle before and her refraction is as follows:
   RE: +1.00 DS / + 2.00 DC x 20
   LE: + 2.50 DC x 170
   NV add: +2.25 DS (OU)
   Explain the choice of spectacle lens and frame selection and the method of dispensing in this patient
3. Explain the various types of facial measurements required for frame selection

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

4. Describe the lens faults detected by shadowing techniques
5. Describe the factors involved in spectacle lens dispensing
6. Explain advantage of plastic lenses over glass lenses

SHORT ANSWERS 5 x 2 = 10 Marks

7. Define layout card and its significance
8. List the important frame markings
9. Define glazing
10. Pantoscopic tilt
11. Define lens scratch and its remedies

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - 22-Nov-2024

Time: Three Hours | Max. Marks: 80

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. Classification of occupational diseases. Write a brief note on Employees State Insurance Act (ESI Act) for prevention and control of occupational diseases
2. Describe the levels of prevention of diseases. Community based rehabilitation (CBR) for eye problems
3. Briefly note down visual requirements, standards for different jobs

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

4. Describe the natural history of disease with example. Write a note on modes of transmission of diseases
5. Define health. Describe the determinants of health
6. List the causes (eye diseases) for blindness. Describe the epidemiology of glaucoma in India

SHORT ANSWERS 5 x 2 = 10 Marks

7. List the national and international agencies for health care
8. What is Ergonomics?
9. Screening for eye diseases in population
10. List the eye problems in geriatric population
11. Levels of health care delivery system India

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination – 22-Nov-2024

Time: Three Hours | Max. Marks: 100

SECTION A: SYSTEMIC DISEASES (RS-4)
Q.P. CODE: 3354

Your answers should be specific to the questions asked
Draw neat, labelled diagrams wherever necessary
(Note : Both QP Codes 3354 and 3355 are to be answered within total duration of 3 hours)

LONG ESSAYS (Question No. 1 choice) 1 x 10 = 10 Marks

1. Enumerate the acquired heart diseases. Discuss the pathophysiology, clinical features, diagnosis and management of rheumatic fever
   OR
   Describe the classification, principle of diagnosis and treatment of helminthic diseases. Write shortly on helminthic disease and eye

SHORT ESSAYS (Question No. 5 choice) 5 x 5 = 25 Marks

2. Explain the pathophysiology of pulmonary tuberculosis and its treatment
3. Herpes viruses and its effect on eye
4. Characteristics of benign and malignant tumor with examples
5. Immunology and eye
   OR
   Write briefly on immune diseases
6. Discuss the types, etiology and management of different types of arthritis

SHORT ANSWERS 5 x 3 = 15 Marks

7. Features of hypertensive retinopathy
8. Classification of thyroid disorders
9. Type 1 diabetes mellitus
10. Short note on genetic engineering
11. Define and write shortly on Xerophthalmia

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination – 22-Nov-2024

Time: Three Hours Max. Marks: 100

SECTION B: OCULAR DISEASES (RS-4)
Q.P. CODE: 3355

Your answers should be specific to the questions asked
Draw neat, labeled diagrams wherever necessary
(Note : Both QP Codes 3354 and 3355 are to be answered within total duration of 3 hours)

LONG ESSAYS (Question No. 1 choice) 1 x 10 = 10 Marks

1. Explain on etiology, clinical features and complications of ophthalmic neonatorum
   OR
   Describe in detail on Retinal vein occlusion include types, clinical features, differential diagnosis and treatment modalities

SHORT ESSAYS (Question No. 5 choice) 5 x 5 = 25 Marks

2. Explain on Steven Johnson Syndrome
3. Explain Endophthalmitis
4. Describe on thyroid eye disease
5. Define ulcerative keratitis and clinical features of bacterial corneal ulcer
   OR
   Write in detail on pre-operative evaluation of cataract
6. Describe the visual pathway defects

SHORT ANSWERS 5 x 3 = 15 Marks

7. Developmental anomalies of eyelid
8. Normal tension glaucoma
9. Solar retinopathy
10. Clinical features and management of Nystagmus
11. Clinical features and management of primary closed angle glaucoma

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - 25-Nov-2024

Time: Three Hours | Max. Marks: 80 Marks

Pediatric Optometry, Binocular Vision and Advances in Optometry (RS-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. Describe Exotropia. Types, aetiology, clinical features and treatment
2. Discuss in detail about paralytic squint. Management of paralytic squint. Difference between paralytic and non-paralytic squint
3. Write a note on stereopsis. Enlist test for stereopsis. Explain any one
4. Write a short note on Neural aspects of binocular vision

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

5. Write a note on management of Amblyopia
6. Congenital cataract. Explain its clinical features and management
7. Mechanism of BSV and its advantages
8. Briefly explain about synaptophore
9. Write a note on after image test
10. Duane retraction syndrome
11. Grades of binocular vision

SHORT ANSWERS 10 x 2 = 20 Marks

12. Brown syndrome
13. Eccentric fixation
14. Botulinum toxin advantages
15. Maddox rod test
16. What you mean by centre of rotation?
17. What is DVD?
18. Xerophthalmia
19. APGAR score
20. Saccades and pursuits
21. Blind spot syndrome

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination – 25-Nov-2024

Time: Three Hours Max. Marks: 100 Marks

SECTION A: PRACTICE MANAGEMENT AND LAW IN OPTOMETRY (RS-4)

Q.P. CODE: 3356

Your answers should be specific to the questions asked
Draw neat, labeled diagrams wherever necessary
(Note : Both QP Codes 3356 and 3357 are to be answered within total duration of 3 hours)

LONG ESSAYS (Question No. 1 choice) 1 x 10 = 10 Marks

1. Importance of propaganda advertisement of a part of PRT
   OR
   What MRD? Explain in a flow chart: value on medical record. What is Quality control in of medical record?

SHORT ESSAYS (Question No. 5 choice) 5 x 5 = 25 Marks

2. Asset and liability
3. Write short on professional ethics of a medical person
4. Write about staff management in optometry
5. Write about medical licensure
   OR
   Write about medical negligence
6. What is balance sheet and profit and loss accounts?

SHORT ANSWERS 5 x 3 = 15 Marks

7. What is sales tax and income tax?
8. Difference between centralization and decentralization
9. Petty cash
10. Book keeping
11. Name four measurements important to check when a patient come back with a complaint with his spectacle (either single vision / bifocal / PAL)

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - 25-Nov-2024

Time: Three Hours | Max. Marks: 100 Marks

SECTION B : OCCUPATIONAL OPTOMETRY (50 Marks) (RS-4)
Q.P. CODE: 3357

Your answers should be specific to the questions asked
Draw neat, labeled diagrams wherever necessary
(Note: Both QP Codes 3356 and 3357 are to be answered within total duration of 3 hours)

LONG ESSAYS (Question No.1 choice) 1 x 10 = 10 Marks

1. What are the effects of UV & IR radiation, preventive measures and treatment for the same?
   OR
   Explain different acts related to occupation. Explain the benefits of ESI act.

SHORT ESSAYS (Question No.5 choice) 5 x 5 = 25 Marks

2. Explain the sources and measures to reduce Air pollution.
3. Define CVS. Explain Ergonomical changes in CVS.
4. Difference between Acid and Alkali burn.
5. Explain visual standards for different occupation.
   OR
   Explain personal protective equipments for different occupation.
6. Write about eye protector devices required for different occupation.

SHORT ANSWER 5 x 3 = 15 Marks

7. Define screening. Levels of screening.
8. Common occupational disease.
9. IOFB.
10. Occupational health and hygiene.
11. Define Glare. Enlist occupation where glare is affected.

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc Operation Theatre Technology Degree Examination – 25-Nov-2024

Time: Three Hours | Max. Marks: 100 Marks

OPERATION THEATRE TECHNOLOGY – APPLIED- PAPER-II (RS-3)

Q.P. CODE: 3409

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

LONG ESSAYS (Question No.2 Choice) 2 x 10 = 20 Marks

1. Describe various laryngoscopes available. Add a note on uses of laryngoscopes and methods of cleaning them.
2. Write about patient care during diagnostic procedures and preparation of endoscopy room.
   OR
   Write about anaesthesia machine safety features and checklist.

SHORT ESSAYS (Question No.5 & 10 choice) 10 x 5 = 50 Marks

3. Discuss preparation of patient with anticipated difficult airway.
4. Tracheostomy tubes and procedure of insertion.
5. HME filter – advantages and disadvantages.
   OR
   Colonoscopy.
6. Central gas supply.
7. Lithotomy position – complications of precautions.
8. Short note on MRI – merits and demerits.
9. Mephentermine.
10. Mobile C-arm image intensifier in OT.
    OR
    Brachial plexus block.
11. Fresh frozen plasma.
12. Basic monitoring in anesthetized patient.

SHORT ANSWER (Question No. 15 & 20 choice) 10 x 3 = 30 Marks

13. Importance of culture and sensitivity.
14. Intra – op USG.
15. Excisional biopsy.
    OR
    Endobronchial intubation.
16. Isoflurane.
17. Post dural puncture headache.
18. Lignocaine uses.
19. Flexometallic ET tube.
20. Immunotherapy.
    OR
    Barium enema.
21. Advantages of pre-oxygenation.
22. FNAC

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Operation Technology Degree Examination – 27-Nov-2024

Time: Three Hours Max. Marks: 100 Marks

OPERATION THEATRE TECHNOLOGY – ADVANCED – PAPER-III (RS-3)

Q.P. CODE: 3410

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

LONG ESSAYS (Question No.2 Choice) 2 x 10 = 20 Marks

1. Preparation, pre-medication and intra operative management of patient for Transplant surgeries.

2. **Preparation of intubation cart of thoracic surgery and use of fiberoptic bronchoscope**
   OR
   Preoperative preparation of cardiac surgery

SHORT ESSAYS (Question No.5 & 10 choice) 10 x 5 = 50 Marks

3. Patient positioning for Gynecological procedures and their complications.
4. Anaesthesia for craniotomy.
5. Indications of Tracheostomy.
   OR
   Tracheo-esophageal fistula (TOF).
6. Anaesthesia for TURP (Trans Urethral Resection of Prostate).
7. What is myasthenia gravis? Preoperative evaluations.
8. Indications of Epidural anaesthesia.
9. Brachial plexus block.
10. Contraindications of spinal anaesthesia.
    OR
    SADDLE Block.
11. Steps of cesarean section.
12. Exception of xylocaine with adrenaline.

SHORT ANSWER (Question No. 15 & 20 choice) 10 x 3 = 30 Marks

13. Local anaesthesia toxicity.
14. Properties of Xenon.
15. Alveolar concentration.
    OR
    Pre oxygenation.
16. Bains circuit.
17. Halothane.
18. Fresh Frozen Plasma (FFP).
19. Laryngeal Mask Airway (LMA).
20. Anaesthesia in SSG.
    OR
    Cardiovascular changes after burn.
21. Liposuction.
22. Anterior Cruciate Ligament (ACL) reconstruction.

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination - 28-Nov-2024

Time: Three Hours | Max. Marks: 100 Marks

Pediatric Optometry, Binocular Vision & Advances in Optometry (RS-4)

Q.P. CODE: 3358

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

LONG ESSAYS (Second Question Choice) 2 x 10 = 20 Marks

1. Give a short note on indication of wearing spectacles in pediatric age group. Frame selection for pediatric age group.

2. What is diplopia? Describe the investigations and intervention done in a case of diplopia.
   OR
   In convergence insufficiency: a) What symptoms would you except the patient to report? b) What binocular vision findings whould indicate the presence of this condition c) What forms of treatment would you consider?

SHORT ESSAYS (Question No 5 & 10 choice) 10 x 5 = 50 Marks

3. Write a note on cycloplegic refraction.
4. Describe about APGAR scoring.
5. Define binocular vision. Give its prerequisite, advantages and test to asses it.
   OR
   What are the spectacle prescription guidelines in Hypermertopic pediatric group?
6. Types of Duane's retraction syndrome and its management.
7. Indications of recurrent stye in pediatric age.
8. Explain TNO test.
9. Brown syndrome.
10. Why does a presbyopes seldom complain of asthenopia accompanying near work in spite of presence of a high exophoria at near?
    OR
    Explain the effect of diagnostic occlusion on ocular alignment in normal subject
11. Write brief on contact lens materials used in pediatric patients.
12. Short note on neural aspects of binocular vision.

SHORT ANSWER 10 x 3 = 30 Marks

13. Which of the tests does not assess negative Fusional vergence?
14. Pleoptics.
15. Muscle pulley and angle of anomaly.
16. What is AC/A ratio and how will you do the procedure.
17. Nutritional amblyopia.
18. Laten hypermetropia.
19. Aneisokonia.
20. CAM visual stimulator.
21. Explain cover uncover test.
22. A patient is viewing a target at 30cm while you perform the cover test. The distance phoria is 2 esophoria and the patients IPD (Inter Pupillary Distance) is 65 mm. The AC/A ratio is 4/1. Predict the phoria at near.

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Optometry Degree Examination – 29-Nov-2024

Time: Three Hours | Max. Marks: 100 Marks

PAEDIATRIC OPTOMETRY, BINOCULAR VISION AND ADVANCED OPTOMETRY (RS-4)

Q.P. CODE: 3358

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

LONG ESSAYS (Second Question Choice) 2 x 10 = 20 Marks

1. Give a brief outline of your management plan of an 10 year old with OD: +7.00 DS (6/18) NV: N10, OS: +1.00 DS (6/6) NV: N6, what might be the probable diagnosis of this patient? Justify

2. Write a short note on 6th nerve palsy and draw Hess charting for evaluation
   OR
   Explain on abnormal retinal correspondence. And its types, evaluation of methods

SHORT ESSAYS (Question No 5 & 10 choice) 10 x 5 = 50 Marks

3. Explain about force duction test
4. Brief note on Steven-Johnson syndrome
5. What is suppression? How do you check suppression clinically?
   OR
   Explain about Heterophoria
6. Define Ductions, vergences and versions with example
7. Define amblyopia and its classification
8. Paediatric history taking
9. Write about cover test
10. Congenital cataract
    OR
    Write about congenital glaucoma
11. Common test used for ruling out phoria
12. Sherrington's laws and herring's law with example

SHORT ANSWER 10 x 3 = 30 Marks

13. Write a short note on Horopter
14. Write a short note on dry retinoscopy
15. Third nerve palsy
16. Head tilt test
17. Strabismus fixus
18. APGAR score
19. Nystagmus and types
20. Explain PBCT
21. Monofixation syndrome
22. Explain the prism directions used in squint correction