

Question Paper

Exam Date & Time: 18-Jun-2024 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIFTH SEMESTER BACHELOR IN AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY DEGREE EXAMINATION-JUNE
2024

SUBJECT: ASL3124- AURAL REHABILITATION IN CHILDREN
(2020 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

Long answers:

- | | | |
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| 1) | Explain in detail about the technologies and systems to improve signal to noise ratio. | (20) |
| 2) | Elaborate on analytic and synthetic training objectives for auditory training. | (20) |
| 3) | Describe Cued Speech. | (10) |
| 4) | Elaborate on training man power resources for service delivery. | (10) |

5) Short essay:

- | | | |
|-----|--|-----|
| 5A) | Write notes auditory training four design principles. | (5) |
| 5B) | Individualized Family Service Plan. | (5) |
| 5C) | Factors affecting family involvement. | (5) |
| 5D) | Principles of Auditory Verbal Therapy. | (5) |
| 5E) | Write about early intervention programs available for hearing impaired children. | (5) |
| 5F) | Write short notes on children with unilateral hearing loss. | (5) |

6) Short notes:

- | | | |
|-----|---------------------|-----|
| 6A) | Total communication | (2) |
| 6B) | External noise | (2) |
| 6C) | Informal training | (2) |
| 6D) | Inclusion | (2) |
| 6E) | Vocational training | (2) |

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Question Paper

Exam Date & Time: 24-Jun-2024 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIFTH SEMESTER BACHELOR OF OPTOMETRY DEGREE EXAMINATION-JUNE 2024

SUBJECT: OPT3101- OCULAR DISEASE - II

(SCHEME 2020)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1) a) Draw a neatly labelled diagram of pupillary light reflex pathway. Write a note on Relative Afferent Pupillary Defect by explaining swinging flashlight test. (20)
b) What is Optic neuropathy? Mention its common characteristics. Explain Nonarthritic ischemic optic neuropathy.
- 2) Explain the complications of cataract surgery under the headings (20)
a) Anterior capsulectomy
b) Rupture of posterior lens capsule
c) Post-operative endophthalmitis
d) posterior capsular opacity
- 3) Explain in detail about the classification, clinical features and management of age-related macular degeneration (10)
- 4) Write in detail about Normal tension glaucoma (10)
- 5A) Write a short note on CRAO (5)
- 5B) Explain Van Herick grading of angle of anterior chamber with its use. (5)
- 5C) Enumerate on Dua classification of ocular burns (5)
- 5D) Write a note on rhegmatogenous RD (5)
- 5E) Write a short note on mechanism of blunt trauma (5)
- 5F) Explain provocative tests of glaucoma. (5)
- 6A) Define vitrectomy (2)
- 6B) Define angle regression (2)
- 6C) What is miosis of pupil? (2)
- 6D) List down the differential diagnosis of Papilledema. (2)
- 6E) Name ANY FOUR types of possible foreign body which lead to ocular injury. (2)

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Question Paper

Exam Date & Time: 25-Jun-2024 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIFTH SEMESTER BACHELOR OF OPTOMETRY DEGREE EXAMINATION-JUNE 2024

SUBJECT: OPT3102- CONTACT LENS - I

(SCHEME 2020)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1) Describe empirical and diagnostic fitting and mention the merit and demerit for both. Explain in details about dynamic fit assessment technique. Mention the characteristic of flat and steep contact lens. (20)
(7+7+6 = 20 marks)
- 2) Explain effectivity? Calculate the power of contact lens if spectacle power is -8.75 D Sph. Consider vertex distance as 13 mm (5)
 - 2A)
 - 2B) Describe what happens to convergence, field of view and magnification for contact lens user who shifts from spectacle (5)
 - 2C) Describe over refraction and over acceptance with example (5)
 - 2D) Explain how tear lens can mask 90% of corneal astigmatism (5)
- 3) Who is ideal for silicone hydrogel contact lens materials? Describe third generation silicone hydrogel materials and name two latest commercially available silicone hydrogel CL materials. (10)
- 4) Describe various lens wear modalities and replacement schedule and provide example. (10)
- 5A) Describe solution induces corneal sensitivity (SICS) and how do we manage it? (5)
- 5B) List the important instructions under the heading of Do's and don'ts (5)
- 5C) Write a note on Meibomian gland dysfunction (MGD) and mention the management plan? (5)
- 5D) What are the various ways to measure lens rotation? Mention limitation of soft toric contact lens. (5)
- 5E) Explain sessile drop test? Name some in vivo test which reflect the same property of a contact lens material which is measured with sessile drop test. (5)
- 5F) Describe US FDA Group III & Group IV contact lens material with example. (5)
- 6A) Explain edge clearance (2)
- 6B) Explain striae (2)
- 6C) Describe Accelerated stabilizing design (ASD) (2)
- 6D) Role of meth acrylic acid (MA) as a monomer (2)
- 6E) Mention ANY ONE recent update in contact lens industry (2)

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Question Paper

Exam Date & Time: 26-Jun-2024 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIFTH SEMESTER BACHELOR OF OPTOMETRY DEGREE EXAMINATION-JUNE 2024
SUBJECT: OPT3103- PEDIATRIC OPTOMETRY AND BINOCULAR VISION - I
(SCHEME 2020)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1) Write in detail about signs, symptoms and management of accommodative insufficiency. (10)
 - i)
 - ii) Describe the application of sheards and Percival's criterion in the prescribing prisms (10)
- 2) A 15year male visited your clinic with a complaint of difficulty in coping with a curriculum and all the academic activities. As an Optometrist define your role and how you plan a multidisciplinary approach to a given scenario. (20)
- 3) What is PEDIG? Summarize the current evidence on the management of amblyopia (10)
- 4) A full-term 2-month-old female baby was referred for "poor fixation". On examination, it was diagnosed as optic nerve hypoplasia. Elaborate on the clinical characteristics and detailed management plan for the given condition (10)
- 5A) Explain the physiological factors contributing to the development of binocular vision (5)
- 5B) Brief on visual behaviour of infant after birth (5)
- 5C) Write a note on normal cognitive development in the infant (5)
- 5D) Explain the tests used for the fine and gross motor development (5)
- 5E) Write a note on congenital lacrimal gland abnormalities (5)
- 5F) Ocular manifestations of downs syndrome and its management (5)
- 6A) List the grades of binocular single vision (2)
- 6B) What is the menace reflex? Mention the critical period of menace reflex (2)
- 6C) Name ANY TWO objective tests to assess the visual status of the eye in pediatric. (2)
- 6D) Mention four categories of visual perceptual skills (2)
- 6E) Define type IV behaviour in the DEM test (2)

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Question Paper

Exam Date & Time: 27-Jun-2024 (10:00 AM - 12:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIFTH SEMESTER BACHELOR OF OPTOMETRY DEGREE EXAMINATION-JUNE 2024

SUBJECT: OPT3104- LOW VISION

(SCHEME 2020)

Marks: 50

Duration: 120 mins.

Answer all the questions.

- 1) Enumerate the common causes of central field loss and what are the functional implications and behavioral manifestations of central field loss? (10)
- 2) What is the role of Optometrist in management of Low Vision patient and in the field of rehabilitation for the visually challenged? (10)
- 3A) Write a note on calculating magnification for near distance. (5)
- 3B) Describe in detail seven non optical aids (5)
- 3C) Explain the uses of electronic devices in low vision management (5)
- 3D) A 10 year old child diagnosed with ocular albinism, whose visual acuity is less than 6/60 in both eyes, field less than 20 degrees. Mention the management plan for this case. (5)
- 4A) List ANY TWO visual acuity charts that can be used in visually impaired patients (2)
- 4B) What are the uses of pin hole spectacle? (2)
- 4C) List two conditions where field expanders can be useful. (2)
- 4D) Mention the disability acts in India. (2)
- 4E) What are the fundus signs seen in the case of retinitis pigmentosa? (2)

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Question Paper

Exam Date & Time: 28-Jun-2024 (10:00 AM - 12:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIFTH SEMESTER BACHELOR OF OPTOMETRY DEGREE EXAMINATION-JUNE 2024
SUBJECT: OPT3105- GERIATRIC OPTOMETRY AND SYSTEMIC DISEASES
(SCHEME 2020)

Marks: 50

Duration: 120 mins.

Answer all the questions.

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|-----|---|------|
| 1) | Describe in detail the age related ocular and non ocular changes in geriatric population. | (10) |
| 2) | i) How does cancer cause ocular problems? What are they?
ii) Explain the pathophysiology and clinical features of hepatitis B virus infection. | (10) |
| 3A) | Describe ANY TWO medical emergencies. | (5) |
| 3B) | Write a note on protein energy malnutrition | (5) |
| 3C) | Explain in detail the structural and functional ocular examination of geriatric patient | (5) |
| 3D) | A 46 years old man diagnosed with Myasthenia Gravis wants to know the clinical features associated with the condition and the available management option for it. How would you explain these to patient? | (5) |
| 4A) | What are the steps involved in pharmacokinetics? | (2) |
| 4B) | Mention the WHO criteria to diagnose AIDS | (2) |
| 4C) | Mention ANY FOUR differential diagnosis of Typhoid | (2) |
| 4D) | Write ANY FOUR ocular association with anemia. | (2) |
| 4E) | List ANY FOUR ocular problems associated with Marfan Syndrome | (2) |

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