



BRAINWARE UNIVERSITY

Term End Examination 2023-2024

Programme – B.Optomety-2021

Course Name – Low Vision Aids & Visual Rehabilitation

Course Code - BOPTOC503

(Semester V)

Full Marks : 60

Time : 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

1. Choose the correct alternative from the following :

- (i) Choose the purpose of the Amsler grid test.
- | | |
|---------------------------------|---------------------------------|
| a) Assess visual acuity | b) Test color vision |
| c) Detect macular abnormalities | d) Measure contrast sensitivity |
- (ii) Choose the eye condition which is associated with increased intraocular pressure and can lead to visual field loss.
- | | |
|----------------|-------------------------|
| a) Astigmatism | b) Macular degeneration |
| c) Glaucoma | d) Retinitis pigmentosa |
- (iii) Select the visual field defect which is characterized by the loss of half of the visual field in both eyes.
- | | |
|-------------------|-------------|
| a) Hemianopia | b) Scotoma |
| c) Quadrantanopia | d) Diplopia |
- (iv) Choose the government agency that is responsible for the implementation of assistive devices for persons with low vision under the Act.
- | | |
|---|--|
| a) Ministry of Social Justice and Empowerment | b) Ministry of Finance |
| c) Ministry of Science and Technology | d) Ministry of Women and Child Development |
- (v) Select the name of the person who created the Snellen chart.
- | | |
|---------------------|--------------------|
| a) Sir Isaac Newton | b) Hermann Snellen |
| c) Louis Braille | d) Johannes Kepler |
- (vi) Identify the primary uses of telescopic low vision devices.
- | | |
|-----------------------|-----------------------------|
| a) Reading fine print | b) Spotting distant objects |
| c) Watching TV | d) Browsing the internet |
- (vii) Select the primary advantage of head-mounted low vision devices.
- | | |
|-------------------|--------------------------|
| a) Hands-free use | b) Greater magnification |
|-------------------|--------------------------|

- c) Enhanced color vision
d) Bluetooth connectivity
- (viii) Select the type of low vision device which is most appropriate for outdoor activities such as hiking and birdwatching
- a) Electronic magnifiers
b) Stand magnifiers
c) Telescopic glasses
d) Handheld magnifier
- (ix) Which of the following terms describes the process of learning to use a low vision device to perform specific tasks?
- a) Device dependency
b) Visual acuity
c) Device proficiency
d) Device denial
- (x) Select the type of low vision electronic aid that uses a camera to capture and enlarge printed material on a screen for easy reading.
- a) Screen reader
b) CCTV
c) Braille display
d) Touchscreen keyboard
- (xi) Choose the common optical assistive device for low vision that uses lenses to magnify objects and text.
- a) Hearing aid
b) Wheelchair
c) Magnifier
d) Prosthetic limb
- (xii) Select the correct definition of low vision.
- a) Visual impairment not correctable with glasses or contact lenses
b) Complete blindness in one eye
c) Difficulty reading in dim lighting
d) Normal vision with occasional blurry vision
- (xiii) Identify the condition which is characterized by a blind spot in the central field of vision and is a common cause of low vision.
- a) Cataracts
b) Astigmatism
c) Macular degeneration
d) Nearsightedness
- (xiv) Select from the following which is NOT a common assistive device for individuals with low vision
- a) Braille typewriter
b) Magnifying glass
c) Screen reader software
d) Large print books
- (xv) Predict when pediatric low vision evaluations should normally start.
- a) During infancy
b) Around age 10
c) In late adolescence
d) Only when the child complains of vision problems

Group-B

(Short Answer Type Questions)

3 x 5=15

2. Discuss vision rehabilitation and counselling in rehabilitation (3)
3. Define visual impairment. (3)
4. Explain the categories of low vision (3)
5. Explain Legal blindness (3)
6. Write short note on Log MAR Charts (3)

OR

Write short note on Vision Rehabilitation (3)

Group-C

(Long Answer Type Questions)

5 x 6=30

7. Explain the primary goals of the pre-clinical evaluation process for low vision patients and how it helps shape the subsequent clinical assessments and interventions. (5)
8. Illustrate how factors such as age, cause of visual impairment, and individual goals impact the pre-clinical evaluation and guide the choice of appropriate assessments and interventions. (5)
9. Justify the factors and considerations that should be taken into account when recommending and selecting optical aids for low vision patients, and how does the level of visual impairment impact the choice of device? (5)
10. Explain the leading causes of low vision in children and how early detection and intervention can play a crucial role in addressing visual impairments in paediatric cases. (5)
11. Can you explain the impact of diabetic retinopathy on low vision, and what preventive measures and treatments are available to address this condition? (5)
12. Explain the importance of providing thorough instruction and training to individuals using low vision devices and how it impacts their overall success and independence. (5)

OR

Can you explain the various criteria and parameters used to classify low vision, including visual acuity, field of vision, and functional vision, and how do these classifications help guide interventions? (5)
