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Brainware University Barasat, Kolkata -700125



BRAINWARE UNIVERSITY

Term End Examination 2024-2025
Programme – M.Optometry-2024
Course Name – Binocular Vision and Neuro-Optometric Rehabilitation
Course Code - MOP20109
(Semester II)

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) What is visual discrimination in the context of learning?
 - a) The ability to distinguish between different colors only.
 - c) The process of avoiding visual distractions.
- b) The ability to interpret visual information such as shapes, letters, and numbers.
- d) The ability to see and memorize images without understanding their meaning.
- (ii) How does visual processing disorder affect learning?
 - a) It makes reading and writing difficult because of trouble processing visual information.
 - c) It leads to enhanced social interaction skills.
- b) It improves memory retention.
- d) It affects physical coordination, but not learning.
- (iii) Create an intervention strategy to support children with learning disabilities related to
 - a) Provide only auditory-based teaching methods.
 - Allow children to sit far away from the board to reduce visual stress.
- b) Ensure that the classroom is well-lit, provide large print materials, and use assistive technology like text-to-speech software.
- d) Limit visual aids completely to focus on verbal instructions.
- (iv) At what age do babies typically begin to track moving objects with their eyes?
 - a) 1-2 months

b) 3-4 months

c) 6-7 months

- d) 12 months
- (v) Which part of the brain is primarily responsible for processing visual information?

	a) Frontal lobe c) Temporal lobe	b) Occipital lobe d) Parietal lobe
(vi) When do infants usually start to recognize faces unfamiliar faces?	s and differentiate between familiar and
	a) At birth c) 6-8 months	b) 3-4 months
(vii) Analyze the role do the parietal and temporal lo	d) 12 months bbes play in visual processing development.
	a) They process basic visual features like color and brightness.	 b) They integrate visual information with spatial awareness and object recognition, allowing individuals to perceive movement and
(viii	 c) They are responsible for encoding visual memories for long-term storage.) The following are signs of accommodation excess 	identify objects in space. d) They are primarily involved in controlling eymovements for tracking visual stimuli.
	a) Low MEM finding	b) Normal AC/A ratio
	c) Low Negative Relative Accommodation	d) Monocular accommodative facility fails minus(-) lens
(ix)	The cause of sensory esotropia is	
	a) Squint surgery.	b) high hypermetropia.
	c) congenital cataract.	d) congenital fibrosis of the medial rectus
(x)	Head nodding is the key feature of	muscle.
	a) Infantile Nystagmus Syndrome (INS)	b) Spasmus nutans
/:\	c) Manifest Latent Nystagmus (MLN)	d) All of these
(XI)	Identify two vergence disorders out of the follow	ving:
	a) Al and AE. c) Cl and FVD.	b) AIF and spasm of accommodation.
(xii)	A 45-year-old male presents with sudden vision loss was painless and occurred within the last 12 should be considered first in the differential diag	hours. Which of the following conditions
	a) Acute angle-closure glaucoma	b) Retinal detachment
(xiii)	c) Optic neuritis Analyze which of the following is most often asso	d) Anterior ischemic antic neuronathy (AION)
	a) Loss of vertical gaze c) Bilateral anisocoria	b) Inability to adduct the affected eye
(xiv)	Analyze which of the following best describes the individuals with TBI.	e role of the vestibular system in
	 a) It plays a role in hearing loss due to brain injury. 	b) It helps in balancing and controlling eye movements.
	 c) It regulates blood pressure during physical activity. 	d) It controls voluntary movements of the
	Evaluate the primary function of a read analyzer TBI.	in the context of vision rehabilitation for
	a) To assess visual field loss	b) To detect issues with eye alignment
	c) To evaluate reading speed and accuracy	d) To test contrast sensitivity

Group-B (Short Answer Type Questions)

3 x 5=15

2. Explain dyslexia.	(3)
3. A 17 years old patient come to your clinic with complaints of difficulty with focusing problem distance after 1 hour of continuous near work. MAF OD and OS is 1.5 cpm, BAF is 0.5 cpm, ar difficulty with both plus and minus lens. Based on the given data, write your diagnosis.	at (3)
4. Explain " CANINE TOOTH SYNDROME".	(3)
5. Evaluate the difference between DVD and inferior oblique overaction.	(3)
6. Analyze the relationship between Visual Learning and Cognitive Development. OR	(3)
Analyze the difficulties raised due to the damage to the dorsal visual pathway.	(3)
Group-C	
(Long Answer Type Questions)	5 x 6=30
7. What do "pupillary light reflex abnormalities" indicate in CNS disorders?	(5)
8. Evaluate the role of "convergence insufficiency" in evaluating CNS function.	(5)
9. Evaluate how saccadic dysmetria reflects dysfunction in the central nervous system.	(5)
10. Discuss congenital motor nystagmus and sensory nystagmus.	(5)
11. Evaluate the patient with nystagmus.	(5)
12. Analyze the various goals and treatment guidelines for amblyopia. OR	(5)
Analyze the role of the dorsal and ventral visual streams along with their clinical relevance.	(5)

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