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BRAINWARE UNIVERSITY

Term End Examination 2023

Programme – B.Optomety-2021

Course Name – Clinical Examination of Visual System

Course Code - BOPTOC405

(Semester IV)

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) Identify the instrument by which aqueous flare can be best demonstrated
- | | |
|----------------------------|----------------|
| a) Slit lamp Biomicroscope | b) Keratoscope |
| c) Ophthalmoscope | d) Pentoscope |
- (ii) Write the normal milestone for a two-month-old.
- | | |
|---------------------|------------------------|
| a) following light | b) head holding |
| c) recognizing face | d) sit without support |
- (iii) Choose the following that can be considered as risk factor of myopia development
- | | |
|--------------------|----------------|
| a) Heredity | b) Ethnicity |
| c) Education level | d) Athleticism |
- (iv) When performing a Worth 4 Dot test with a four year old, the child reports 3 red dots and 1 green dot. Record the interpretation
- | | |
|-----------------------|--------------------------------|
| a) Fusion response | b) A diplopia response |
| c) Green Eye response | d) An uninterpretable response |
- (v) Select the normal APGAR score of a newborn baby
- | | |
|------------------------|------------|
| a) 10 and more than 10 | b) 7 to 10 |
| c) 4 to 6 | d) 5 |
- (vi) Identify the logMAR value which is equivalent to snellen visual acuity of 20/200
- | | |
|-------|--------|
| a) 1 | b) 0 |
| c) 10 | d) 0.1 |
- (vii) Relate the test that gives the best dissociation is
- | | |
|---------------------------|----------------|
| a) Slit refraction | b) Worth 4 Dot |
| c) Cycloplegic Refraction | d) Red glass |
- (viii) Select the correct option: 'C' in CSM test stands for _____ fixation
- | | |
|-------------|------------------|
| a) Curve | b) Central |
| c) Circular | d) None of these |

- (ix) Select which instrument can be used to study angle of anterior chamber
- a) indirect ophthalmoscopy
b) gonioscopy
c) retinoscopy
d) amblyoscope
- (x) Classify the prism used in the slit lamp to make the inverted image erect is
- a) Internal doubling prism
b) Porro Abbe Prism
c) Integrated Fresnel Prism
d) Reflective polyhydral Prism
- (xi) Select the correct answer for Biomicroscopic examination of the fundus is carried out with the assistance of
- a) -58.6 D Hurby lens
b) +78 D LENS
c) Both a and b
d) None of these
- (xii) The Maddox rod test is used to assess
- a) Visual acuity
b) Color vision
c) Binocular vision
d) Peripheral vision
- (xiii) Identify which of the following is not a common cause of reduced visual acuity of a pediatric patients?
- a) Refractive errors
b) Cataracts
c) Trauma to the optic nerve
d) Diabetic retinopathy
- (xiv) Select the correct statements about slit-lamp techniques.
- a) uncoupling of the microscope and light source is needed in sclerotic illumination
b) specular illumination is best for visualizing the endothelium
c) the light and the microscope are co-axial in retro illumination
d) All of these
- (xv) While performing Hirschberg test on a child corneal reflex found 20 degree nasally, in indicates
- a) 40PD exotropia
b) 20PD exotropia
c) 40PD esotropia
d) 40PD esophoria

Group-B

(Short Answer Type Questions)

3 x 5=15

2. Describe contrast sensitivity and name the charts required for the test. (3)
3. Explain what an anterior eye examination includes. (3)
4. Describe the modified Krimsky test. (3)
5. Explain the Bagolini striated glass test. (3)
6. Explain how the red-green filter functions in refraction. (3)

OR

Explain the disadvantages of the duochrome test. (3)

Group-C

(Long Answer Type Questions)

5 x 6=30

7. Describe Retro illumination with suitable diagram (5)
8. Explain the different types of illumination techniques (5)
9. Mr. Roy has come to your clinic with his 3 years old son, having complain of significant vision losing his right eye. During eye examination you found that the patient is having dense cataract in his right eye since birth. What will be your plan of treatment for this patient? (5)
10. Briefly describe the methods of assessing visual acuity of 1 year old child (5)
11. Write down all possible interpretations of Worth Four Dot Test (5)
12. Explain the Red-green filter test in details. (5)

OR

Explain the contrast sensitivity test procedure. (5)