



BRAINWARE UNIVERSITY

Term End Examination 2023

Programme – B.Optomety-2019/B.Optomety-2020

Course Name – Occupational Optometry

Course Code - BOPTO605

(Semester VI)

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 condition where the palpebral and balbar conjunctiva form an abnormal adhesion to one another
- | | |
|------------------|--------------------|
| a) Symblepharon | b) Ankyloblepharon |
| c) Layophthalmos | d) Blepharitis |
- (ii) Identify the use of Nagles anomaloscope
- | | |
|---------------------|--------------------|
| a) colour vision | b) field of vision |
| c) Binocular vision | d) Steriopsis |
- (iii) If a person deals with an angular size of critical detail of about 1.5 min of arc, choose the expected optimum visual acuity required for the person.
- | | |
|--------------|--------------|
| a) 6/30, N20 | b) 6/48, N30 |
| c) 6/12, N12 | d) 6/4.5, N3 |
- (iv) If the luminance is increased beyond a certain level, estimate that the visual acuity will suffer because of:
- | | |
|---------------------|---------------------|
| a) Disability glare | b) Discomfort glare |
| c) Veiling glare | d) Reflections |
- (v) What type of form acuity should be evaluated or estimated in people who are working with micrometres or precision gauges?
- | | |
|-------------------------|-------------------|
| a) Visual acuity | b) Vernier acuity |
| c) Contrast sensitivity | d) Color vision |
- (vi) Choose what will happen if there are no compensatory head movements for the target speed of more than 60 degrees per second.
- | | |
|-----------------------------|---------------------------|
| a) Visual acuity drop | b) Visual acuity improves |
| c) Visual acuity stabilizes | d) Totally blinds |
- (vii) Choose which is the most accurate visual function test for people who are working on inspection tasks on a conveyor belt.
- | | |
|------------------|-------------------|
| a) Visual acuity | b) Vernier acuity |
|------------------|-------------------|

- c) Dynamic acuity
d) Steriopsis
- (viii) If an air traffic controller fails the colour vision test, explain what you can recommend:
a) Not to continue the same job
b) Shift the person to administrative job
c) Advise him with X chrome contact lens
d) Train him again on the job
- (ix) Do you recommend selecting an optometrist with a colour vision defect for your organization?
a) Yes, but give him only refraction job
b) Yes, and give all type of work
c) No
d) Yes, but motivate him to act as supervisor
- (x) Select the most common eye effects of radiation exposure:
a) The formation of cataract
b) The formation of corneal keratitis
c) Corneal edema
d) Conjunctivitis
- (xi) Arc-eye is commonly associated with:
a) Field workers
b) Welders
c) Librarians
d) Construction workers
- (xii) The direct effect of microwave radiation shows:
a) Increase in eye pressure
b) Increase in temperature of the tissue
c) Decrease in temperature
d) Decrease in eye pressure
- (xiii) Choose what ISO recommends for a flicker-free display at _____ Hz:
a) 72
b) 82
c) 100
d) 50
- (xiv) Name the various discipline levels associated with occupational health issues.
a) At state levels
b) At national levels
c) At local levels
d) Both b and c
- (xv) Select the core occupational health and safety principles that were not put forth by the ILO.
a) Work should take place in a safe healthy environment
b) Conditions of work should not be consistent with workers
c) Work should offer real possibilities for personal achievement
d) Work should offer real possibilities for self-fulfilment

Group-B

(Short Answer Type Questions)

3 x 5=15

2. Describe Occupational Optometry (3)
3. Explain a few lighting tips for healthy eyes (3)
4. Briefly describe an individual's follow up in the Occupational Optometry service. (3)
5. Explain the role of an occupational optometry service in the steel and iron industry. (3)
6. Explain the term: accident (3)

OR

Explain the term: hazard (3)

Group-C

(Long Answer Type Questions)

5 x 6=30

7. Explain the ISHIHARA test chart from plate 28-38 in detail. (5)
8. Explain the lighting that is advised for sad or depressed people that is not harmful to the eyes. (5)
9. Describe occupational optometry and the role of the occupational optometrist. (5)
10. Explain in detail the light sources that must be chosen for our eyes. (5)
11. Distinguish between an accident and a near miss. (5)
12. Classify contact lenses and UV protection. (5)

OR

Plan the best light source for reading, watching tv, using a computer or tablet, and so on. (5)
