

**Third Year B. Optometry Examination**  
**Occupational Optometry & Community Optometry**

Date : 10-01-2019, Thursday]

[Max. Marks : 80

[Time : 3 Hours

- Instructions :** (1) Answer to the point.  
 (2) Figure to the right indicates marks.  
 (3) Draw diagrams wherever necessary.  
 (4) Write legibly.  
 (5) Use separate answer books for each section.

### Section A

**Q.1 Do as Directed**

(1x5=5)

**(A) Give Full Forms**

- 1) UNDP
- 2) CRLI
- 3) NIOH
- 4) ASTM
- 5) OSHA

**(B) Match the Following**

(1x5=5)

**Group A**

- 1) UV rays
- 2) IR rays
- 3) Microwave
- 4) Radiofrequencies
- 5) Visible rays

**Group B**

- 1) 400 nm - 760 nm
- 2) 1m - 1km
- 3) 100 nm - 400 nm
- 4) 760 nm - 1 mm
- 5) 1 mm - 1 m

**Q.2 Write Short Notes. (Any Five)**

(5x6=30)

- 1) Common systemic drugs that causing ocular side effects
- 2) Short note on personal protective equipment with diagram
- 3) Give definition of occupational hazards & explain type & example of occupational hazards in detail
- 4) Short note on optimum sunglasses
- 5) Short note on ocular conditions defined as true emergencies, urgent situation & semi urgent situation

P.T.O.]

6) Give description of the following

- a. Z80.3
- b. Z136.1
- c. Z80.9
- d. Z80.8
- e. Z87.1
- f. Z80.4

Section: B

Q.3. (A) Match the following

(1x5=5)

**Group A**

- 1) Dynamic Visual Acuity
- 2) Accommodation & Vergence Facility
- 3) Visual processing speed
- 4) Eye Hand Co-ordination
- 5) Peripheral Vision

**Group B**

- a) Tachistoscope.
- b) Saccadic fixator
- c) BIM / BOP Technique
- d) Peripheral Awareness
- e) Sherman's Dynamic visual Acuity disc

(1x5=5)

(B) Define followings

1. Dynamic visual acuity
2. Visualization
3. Pursuit eye movement
4. Saccades
5. Vestibulo ocular movement

Q.4. Write Short Notes. (Any Five)

(5x6=30)

- 1) Explain different types of eye injury according to various sports wise including their mode & severity.
- 2) Write about sports vision enhancement training.
- 3) Give comparison between soft contact lens, RGP contact lens & spectacle lens.
- 4) Tabulate the various sports, for particular filters recommended and the filter characteristics.
- 5) Write note on vision correction in sports with spectacles.
- 6) Explain the role of optometry & optometrist in the prevention of blindness & primary eye care.

**Third Year B. Optometry Examination**  
**Pediatric Optometry, Geriatric Optometry & Low Vision Aids**

Date : 16-01-2019, Wednesday]

[Max. Marks : 80

[Time : 3 Hours

- Instructions :** (1) Answer to the point.  
(2) Figure to the right indicates marks.  
(3) Draw diagrams wherever necessary.  
(4) Write legibly.  
(5) Use separate answer books for each section.

**Section A**

**Q. 1 Write in brief/ fill in the banks (10 Marks)**

1. Full form of JAWS.
2. Define visual impairment.
3. Explain Braille technique in brief.
4. Define visual handicap.
5. Convert 4M into snellen notation.
6. Range of stand magnifier available in Indian market.
7. Define legal Blindness.
8. Define LVES in brief with its magnification.
9. Write all stages of psychosocial impairment of low vision patient.
10. Write in brief about difference between functional and total blindness.

**Q. 2: Write shortnotes in detail (30Marks)**

1. What is low vision? Tabulate the functional implications of Central field loss and peripheral field loss.
2. Write in detail about non-optical devices.
3. Write in detail about grieving stages of loss of vision.
4. Calculate mathematically magnification and tube length of telescope of + 50 D ocular and +25D objective and also calculate the same telescope power used in ametropic patient of 10 D hyperope and myope.
5. Write in detail about spectacle magnifier and hand held magnifier.
6. Write in detail about telescope available in Indian market.

**Section B**

**Q3 Write in brief/ fill in the banks (10 Marks)**

1. Define prenatal.
2. Define Amblyopia.
3. Write in brief about cycloplegic drugs.
4. Write in brief about arcus senilis

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5. Define senile ptosis.
6. Define senile entropion.
7. Define Nystagmus.
8. Write side effects of atropine drug.
9. Explain in brief about Distichiasis.
10. Define Synchisis Syneresis.

**Q.4. Write shortnotes in detail (30Marks)**

1. Write in detail about dispensing Glasses and frames to pediatric patients.
  2. Explain in detail about prenatal, perinatal and postnatal factors.
  3. Write in detail about dispensing glasses to geriatric patients.
  4. Write in detail about management of Nystagmus.
  5. Write in detail about types of Amblyopia and it's treatment.
  6. Differential diagnosis of Leucocoria in detail.
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