# KMCT COLLEGE OF ALLIED HEALTH SCIENCES MUKKOM, KOZHIKODE, KERALA. DEPARTMENT OF OPTOMETRY CEVS QUESTION BANK

# **SPECIFICATIONS TO ALIGN QUESTION BANK & ANSWER KEYS**

# ESSAY:

- Describe different types of prisms. Explain the nomenclature, optics and uses in Ophthalmology.
- 2. What is keratometry and mention the different types. Describe the optics of manual keratometry.
- 3. Discuss the optics of indirect ophthalmoscope and describe theadvantages of the same in comparison with the direct ophthalmoscope.
- 4. Outline the principles and details of various types of refractometers.
- 5. Define retinoscopy. Describe the various techniques of retinoscopy. Mention the currently available types of retinoscopes.
- 6. Discuss the principle and methods of testing colour vision. Describe any one method of colour vision testing.
- 7. Define retinoscopy. Describe the various techniques of retinoscopy. What are the currently available types of retinoscopes.
- 8. Discuss the optics of slit lamp bio microscopy. Add a note on thetechniques of slit lamp examination of the anterior and posterior segments of the eye.
- 9. Explain in detail-
  - The differences between snellen visual acuity and logMARacuity charts.
  - What are the basics in constructive a logMAR chart" replaced with "Add a note on various types of charts available for near vision testing.
  - The illumination standards for vision examination
- 10. Explain the normal field of vision. Mention different perimetry techniques. Explain how you do an automated field test in glaucoma.

- 11. Explain different illumination techniques in slitlamp with optics of each
- 12. Explain the causes of gradual progressive loss of vision. Explain the necessary clinical examination and tests required in a patient suspected to have primary open angle glaucoma
- 13. Mention the different techniques of examinations of fundus.
- 14. Describe the principle of each. How does each technique differ from one another.
- 15. What is tonometry. Outline the principle, types and techniques of each of them.
- 16. A young contact lens user complaints of irritation in both eyes that persist even with his new disposal lens set. The optometrist suspected a tear film deficiency in this patient and performed examination.
  - Explain basal and reflex tear secretion.
  - Explain the test that would help document the patient's condition.
  - List which of this test is screening and which are confirmatory.
- 17. Explain visual acuity and its components. Differentiate between Snellen visual acuity chart from log MAR visual acuity chart.
- 18. Enumerate different types of tonometers. Describe the techniques, advantages and disadvantages of any two methods.
- 19. What are the components of vision. How will you assess visual acuity in pre-school children.
- 20. What is visual acuity and what are its different components. Describe different methods of assessing visual acuity in children below 5 years.
- 21. Describe the different methods of tonometry illustrating the advantages and disadvantages of each.
- 22. Describe different techniques of visual field charting.
- 23. Enumerate the principles of objective autorefractometers. List the advantages and disadvantages of autorefractometry.
- 24. Discuss examination of the pupil. Describe the abnormal pupillary reactions.
- 25. Discuss the various methods of visual acuity testing. What are the methods of testing color vision .
- 26. Define visual field. Discuss different methods of field charting

- 27. Outline the principles and details of various types of refractometers.
- 28. Define retinoscopy. Describe the various techniques of
- 29. retinoscopy. What are the currently available types of retinoscopes.
- 30. What is visual field and mention the different components. Describe different methods of field charting.
- 31. Describe the different methods of tonometry and list the advantages and disadvantages of each.
- 32. Discuss the principle of Snellen's chart. Add a note on various types of charts available for distance and near vision testing.
- 33. Describe various methods of fundus examination and the principle of each. What are the advantages and disadvantages of each of them.
- 34. What are the different methods of tonometry. List the advantages and disadvantages of each.
- 35. Discuss the various methods of visual acuity testing. What are the methods of testing colour vision.
- 36. Discuss the different methods and indications for evaluation of field of vision.
- 37. Describe different techniques of tonometry. Mention the principles, advantages and disadvantages of each.
- 38. What is low vision. Describe the different types of low vision aids.
- 39. What are the components of slitlamp biomicroscope and explain the various illumination techniques in slit lamp. Write about any five principal dyes currently used in ocular examinations.
- 40. Describe the principles of retinoscopy. What are the types of retinoscopes. Explain how you will do streak retinoscopy.
- 41. Describe various methods of fundus examination and the principle of each. What are the advantages and disadvantages of each of them.
- 42. Describe the angle of the anterior chamber and discuss the methods of assessment of intra ocular pressure.

### **SHORT NOTES:**

- 1. Slit lamp bio microscopy for fundus
- 2. Applanation tonometry
- 3. Kinetic perimetry

- 4. Cover tests
- 5. B scan
- 6. Describe 90 D lens and its use
- 7. Enumerate the different types of illuminations used in the evaluation of anterior segment by slit lamp.
- 8. Discuss the principles and techniques of external eye photography
- 9. What is the principle of external eye photography
- 10. What is perimetry and mention the different types.
- 11. Outline the technique of using prism bar
- 12. Describe the different types of ultrasonography.
- 13. Define low vision and mention different types of low vision aids
- 14. Describe the optics of direct ophthalmoscopy with diagrams.
- 15. Discuss the techniques of objective optometers.
- 16. Discuss the normal light reflex of the pupil. Add a note on swinging flash light test
- 17. What is Visual acuity? Briefly describe the methods to measure Visual acuity
- 18. What is perimetry. Mention the different types.
- 19. Outline the technique of using prism bar
- 20. Describe the technique of streak retinoscopy with diagrams.
- 21. Discuss the techniques of photography of the anterior segment of the eye.
- 22. Discuss the methods of evaluation of the posterior segment in the presence of a hazy media
- 23. How to measure stereopsis and what is the clinical importance of it
- 24. Explain the procedures involved in objective refraction
- 25. Explain Macular function test
- 26. Discuss evaluation of dry eye
- 27. Discuss uses of sodium fluorescein dye
- 28. Discuss about macular function test
- 29. Evaluation of watering of eyes
- 30. Tonometry
- 31. Discuss various methods for measuring stereopsis.
- 32. Discuss low vision aids
- 33. Discuss evaluation of watering of eye

- 34. Keratometry
- 35. Mention the salient points in the history taking of a case of corneal ulcer 4. Describe the various tests of color vision.
- 36. How do you examine ocular motility of the eye.
- 37. How do you test and write the report for the patency of lacrimal system.
- 38. What is ultrasonography in ophthalmology. Mention the types.
- 39. What are the advantages of Phoropter over trial lens kit.
- 40. Explain the importance of pupillary assessment and name two disease condition where it would be useful.
- 41. Compare Snellen vs logMAR visual acuity.
- 42. Explain the principle of applanation tonometer. Write its advantage over Schiotz tonometer.
- 43. Enlist the various illumination techniques in slit lamp and explain the specular reflection & sclerotic scatter.
- 44. Explain the Glaucoma hemifield test in detail.
- 45. How will you take history in a patient presented with defective vision.
- 46. Examination of lacrimal system.
- 47. Compare direct and indirect ophthalmoscopy.
- 48. Humphry field analyzer.
- 49. Color vision tests.
- 50. Diplopia charting
- 51. Duo chrome test
- 52. A- scan
- 53. Uses of prisms in ophthalmology
- 54. Lensometer
- 55. How will you take history in a patient presented with defective vision
- 56. Examination of lacrimal system.
- 57. Methods colour vision testing.
- 58. Synoptophore.
- 59. Muscle balance tests.
- 60. Discuss B scan examination of the eye.
- 61. Describe the principle and types of tonometry

- 62. Importance of family history in eye diseases
- 63. Retinoscopy
- 64. Maddox rod
- 65. Pachymetry
- 66. Difference between direct and indirect ophthalmoscopy
- 67. Bagolini striated glasses
- 68. What is the principle of external eye photography
- 69. What is perimetry and mention the different types.
- 70. Outline the technique of using prism bar
- 71. Describe the different types of ultrasonography.
- 72. Define low vision. Mention different types of low vision aids
- 73. Muscle balance tests
- 74. Tests for colour vision
- 75. How will you calculate IOL power.
- 76. Low vision aids
- 77. Lensometer
- 78. Discuss biometry
- 79. Dynamic retinoscopy.
- 80. What are the various methods of fundus examination.
- 81. Near vision charts
- 82. Gonioscopy
- 83. Streak retinoscopy
- 84. Uses of prism
- 85. Bagolini striated glasses
- 86. Retinoscopy
- 87. Maddox rod
- 88. Applanation tonometry
- 89. Describe the optics of lensometry with diagrams.
- 90. Discuss the technique of applanation tonometry.
- 91. Discuss the methods of evaluation of the accommodation and convergence
- 92. Snellen's charts
- 93. Tests for BSV

- 94. Optics of manual keratometry.
- 95. Cover tests
- 96. Describe the nomenclature and uses of prisms in ophthalmology
- 97. Explain the classification of colour vision defect. Briefly explain the tests for colour vision
- 98. Full form of IPD. Write down the procedure for IPD measurement (Distance & near) using PD ruler.
- 99. Applanation Tonometry.
- 100. Discuss A scan ultrasonography
- 101. Discuss Applanation tonometry
- 102. Examination of muscle balance
- 103. Near vision charts
- 104. Gonioscopy
- 105. Streak retinoscopy
- 106. Discuss direct ophthalmoscope.
- 107. Discuss anterior segment evaluation by slit lamp.
- 108. Discuss fundus camera

## **ANSWER BRIEFLY:**

- 1. Different types of retinoscopes
- 2. Colour vision charts. 3.Trial frames 4.Gonioscopes 5.Lensometer
- 3. RAF rule
- 4. Snellens chart
- 5. Placido's disc
- 6. OCT
- 7. Pachymetry
- 8. Describe applanation tonometry
- 9. Principle of auto refractometer
- 10. What is keratometry. Enumerate two methods of keratometry
- 11. RAF (Royal air force) rule
- 12. Farnsworth Munsel hundred hue test
- 13. Describe the technique of examination of cornea by slit lamp.
- 14. Outline the methods of examination of pupil.

- 15. Outline the design of a trial frame.
- 16. Outline the principle of direct ophthalmoscope.
- 17. Non-contact lenses for fundus examination.
- 18. Describe the uses of B scan.
- 19. Explain the techniques and use of RAF rule.
- 20. Different types of gonioscopes.
- 21. What is the use of amsler grid.
- 22. Astigmatic fan
- 23. Principle of Snellen's visual acuity chart.
- 24. Uses of ultrasound A scan
- 25. Indications for CT scan of the orbit
- 26. Uses of bagolini striated glass
- 27. Uses of prisms in the examination of the eye.
- 28. Describe the technique of examination of cornea by slit lamp.
- 29. Outline the methods of examination of pupil.
- 30. Outline the design of a trial frame.
- 31. Outline the principle of direct ophthalmoscope
- 32. Non-contact lenses for fundus examination
- 33. Principle of Snellen's chart
- 34. Principle of gonioscopy
- 35. Uses of RAF rule (Royal Air Force Rule)
- 36. Uses of keratometer
- 37. Technique of lacrimal syringing test.
- 38. List the various methods for fundus examination
- 39. Explain the slitlamp technique used to evaluate the corneal endothelium
- 40. Types of ERG
- 41. What are the two most important birth history to be obtained during pediatric history taking
- 42. Explain the significance of nausea or vomiting sensation while reporting a headache history
- 43. Types of retinoscopes
- 44. Bagolini striated glasses

- 45. Types of Gonioscopy
- 46. Maddox rod
- 47. Marcus Gunn pupil
- 48. Different methods of Fundus Examination
- 49. Goldmann 3 mirror contact lens
- 50. Confrontation test
- 51. Components of trial case.
- 52. Phoropter
- 53. RAF rule
- 54. Examination of muscle balance
- 55. Maddox rod
- 56. Colour vision charts
- 57. Assessment of near vision
- 58. Describe the techniques of examination of vision of a two year old child.
- 59. Explain the different types of examination techniques under a slit lamp.
- 60. What is retinoscopy. What are the different techniques.
- 61. What is automated perimetry and how it differs from manual perimetry.
- 62. What are uses of amsler grid.
- 63. What is keratometry. Describe the technique of keratometry.
- 64. Mention the various parts of a trial frame and mention its uses.
- 65. What is best form lenses.
- 66. What is maddox rod used for. Describe the technique.
- 67. What is the principle of a refractometer and mention the types.
- 68. List two test used to measure stereopsis among preschool Children (3-6 yrs).
- 69. Explain ROPLAS.
- 70. List two disease conditions where visual field is reduced.
- 71. What is the principle behind pinhole.
- 72. Explain the need for measuring inter pupillary distance
- 73. What is lens guage and what measurement is taken with lens guage.
- 74. What is Scheiner's principle.
- 75. Differentiate plane mirror retinoscopy from concave mirror retinoscopy and write its indications.

- 76. Name few color vision charts designed based on pseudoisochromatic principle.
- 77. K1: 45.50D @10; K2: 49.00D@100. Comment on keratometry readings.
- 78. Maddox wing
- 79. Prism bar
- 80. Phoropter
- 81. Cross cylinder
- 82. Duochrome test
- 83. RAF rule
- 84. Bjerrum's screen
- 85. Dynamic retinoscopy
- 86. Placido's disc
- 87. Bagolini striated glass
- 88. Trial frame
- 89. Pinhole
- 90. Jackson's cross cylinder
- 91. inter pupillary distance
- 92. Streak retinoscope
- 93. Amsler grid
- 94. Maddox wing
- 95. Pachymeter
- 96. Examination of pupil
- 97. Advantages of indirect ophthalmoscopy
- 98. Maddox rod
- 99. Prism bar
- 100. 10. Phoropter
- 101. Astigmatic fan
- 102. Hirschberg's test
- 103. Structures in the angle of anterior chamber
- 104. Non-contact tonometers.
- 105. Dynamic retinoscopy
- 106. Placido's disc
- 107. Bagolini Striated glass

- 108. Describe schirmer's test
- 109. Describe phoropter
- 110. Describe the Snellens visual acuity chart.
- 111. Confrontation test.
- 112. Enumerate four methods of examination of the fundus
- 113. Uses of prism
- 114. Axial biometry
- 115. Uses of amsler grid
- 116. RAF rule
- 117. Principle of keratometry 118.Gonioscopes
- 118. Trial frame design
- 119. Principle of lensometer
- 120. Slit lamp boimicroscopy
- 121. Fresnel prism
- 122. Describe the technique of examination of cornea by slit lamp.
- 123. Outline the methods of examination of pupil.
- 124. 125. Outline the design of a trial frame.
- 125. 126.Outline the principle of direct ophthalmoscope ..
- 126. 127. Non contact lenses for fundus examination.
- 127. Describe the uses of B scan.
- 128. Explain the techniques and use of RAF rule.
- 129. Different types of gonioscopes.
- 130. What is the use of amsler grid. 132. Mention four low vision aids
- 131. Trial frame
- 132. Near vision charts
- 133. Fresnel prisms
- 134. Gonioscopes
- 135. Streak retinoscope
- 136. Amsler grid
- 137. Maddox rod
- 138. Pachymeter
- 139. Examination of pupil

- 140. Methods of illumination in slit lamp
- 141. What is perimetry and name the types
- 142. What is gonioscopy. What are the requirements for gonioscopy
- 143. What is ultrasound B scan and mention its indications
- 144. What is Automated Refractometry and mention its advantages
- 145. What is lensometer. What are the advantages and disadvantages.
- 146. Mention the method of examination of angle of anterior chamber
- 147. Uses of pachymetry. 151.Lacrimal syringing technique
- 148. Mention the relevant points in history taking in a case of corneal ulcer
- 149. Macular function tests
- 150. What are the methods of testing visual acuity in children
- 151. What is the ideal setting for vision examination in a consulting space
- 152. Uses of B scan
- 153. Mention the various low vision aids 158. How do you examine ocular motility
- 154. Uses of prism
- 155. Axial biometry
- 156. Uses of Amsler grid
- 157. RAF rule
- 158. Principle of keratometry
- 159. Principle of pin hole testing
- 160. Design of the trial frame
- 161. Uses of Maddox rod
- 162. Principle of biometry
- 163. Uses of ultrasound B scan.
- 164. Inter pupillary distance
- 165. Color vision charts. 172.Trial frames 173.Gonioscopes 174.Lensometer 175.RAF rule176.Bjerrum screen 177.Placido's disc 178.Jone's dye test 179.FRIEND test
- 166. Explain the implication of the worth four dot test, if only three green light is seen by the patient
- 167. List down the contra indication for pupil dilation.
- 168. List the common test used for assessing corneal health
- 169. Provide full form of the abbreviation PERRLA

170.	Name any four visual acuity charts used in pediatric population
171.	Examination of proptosis
172.	Macular function tests
173.	Amsler grid
174.	Afferent pupillary defect
175.	Bjerrum screen
176.	Titmus Fly test
177.	Principle of Goldmann applanation tonometer.
178.	Lacrimal syringing technique
179.	Mention the relevant points in history taking in a case of corneal ulcer
180.	Macular function tests
181.	Enumerate the colour vision tests.
182.	196 Describe the automated static perimetry.
183.	Describe the Maddox rod and its uses.
184.	Describe lacrimal syringing.
185.	Describe relative afferent pupillary defect
ONE	WORD ANGWED.
1.	WORD ANSWER:  Corneal endothelial cell count is measured by
2.	Scan is contra indicated in intraocular foreign body.
3.	Two tests for patency of nasolacrimal duct.
4.	One test for detecting dry eye.
5.	Proptosis is measured using
6.	Commonest chart used for assessment of distant visual acuity is
7.	Mention one macular function test in patients with opaque media
8.	Mention one orthoptic instrument
9.	Temporal extent of the normal visual field is degrees
10.	Extent of the field assessed with amsler grid is degrees
11.	CC cards is used at distance.
12.	Lensometer is used for
13.	One technique of color vision testing
14.	Bagolini striated glass is used for
15.	History of seeing colored haloes is important in

16.	One indication for scleral indentation during indirect ophthalmoscopy is	
17.	is the principle of applanation tonometry. The magnification	
	obtained in indirect ophthalmoscopy is	
18.	The normal thickness of the central cornea is	
19.	One indication for the use of Amsler grid is	
20.	CC cards is used at distance.	
21.	Lensometer is used for	
22.	One technique of colour vision testing	
23.	Bagolini striated glass is used for	
24.	History of seeing coloured haloes is important in	
25.	One contra-indication for MRI of the eye in case of ocular trauma is	
26.	One cause for keratitis which is associated with diminished corneal sensation is	
27.	The colour vision test which is useful in screening congenital colour blindness is	
28.	The choice of charts for testing visual acuity in illiterates is	
29.	One indication for the use of Maddox wing is	
20	Ontical coation is used to assess flares and calls in a	
30.	Optical section is used to assess flares and cells in a evaluation	
31.	Modified test is used to measure phoria in patient with	
31.	Modified test is used to measure phoria in patient with	
31. 32.	Modified test is used to measure phoria in patient with binocular vision anomalies	
31. 32.	Modified test is used to measure phoria in patient with binocular vision anomalies  Reduced tear meniscus level would be noted in patient with	
<ul><li>31.</li><li>32.</li><li>33.</li></ul>	Modified test is used to measure phoria in patient with binocular vision anomalies  Reduced tear meniscus level would be noted in patient withsyndrome	
<ul><li>31.</li><li>32.</li><li>33.</li><li>34.</li></ul>	Modified test is used to measure phoria in patient with binocular vision anomalies  Reduced tear meniscus level would be noted in patient with syndrome  The pupil will dilate while fixating at a object	
<ul><li>31.</li><li>32.</li><li>33.</li><li>34.</li><li>35.</li></ul>	Modified test is used to measure phoria in patient with binocular vision anomalies  Reduced tear meniscus level would be noted in patient with syndrome  The pupil will dilate while fixating at a object  Ishihara colour vision test is effective for testing	
<ul><li>31.</li><li>32.</li><li>33.</li><li>34.</li><li>35.</li><li>36.</li></ul>	Modified test is used to measure phoria in patient with binocular vision anomalies  Reduced tear meniscus level would be noted in patient with syndrome  The pupil will dilate while fixating at a object  Ishihara colour vision test is effective for testing	
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46.	Corneal curvature is measured by
47.	Erect magnified image is seen with
48.	Ophthalmoscope
49.	The refractive error in aphakia is
50.	The size of image by 78 D lens is than by 90 D lens.
51.	The axial length by A scan appears to be in silicone oil filled eyes
52.	CC cards is used for
53.	Prism bar is used for
54.	53. RAF is used for
55.	One example of a low vision aidBjerrum screen is used for
56.	visual acuity chart cannot be used in various distances.
57.	Tear film break up time of greater than secs is considered normal.
58.	Hirschberg test shows one of the reflex at the limbal margin, prism diopter is the
	estimated deviation.
59.	A young child with significant exophoria would mostly have refractive error.
60.	A patient with visual acuity of 6/60 for distance and a near acuity of N6 would have
	uncorrected refractive error
61.	In indirect Ophthalmoscopy examining eye is made (myopic/
	hypermetropic)
62.	The instrument measures the axial length of the eye.
63.	The test used to examine the quality of tear film is
64.	Exophthalmometer measures
65.	In slit lamp, the fundus examination is performed with the help of
66.	One formula for IOL power calculation.
67.	Name one indirect gonioscope.
68.	One device used for measuring retinal nerve fiber thickness.
69.	Instrument used for measuring central corneal thickness.
70.	is used for detecting posterior segment pathology in opaque
	media
71.	Two tests for contrast sensitivity are and and
72.	Scissor shadow is seen in
73.	Near point of convergence is measured by

74.	Name two near vision charts
75.	Mention two types of clinical interferometers
76.	Normal intraocular pressure
77.	Name one indirect gonioscope.
78.	One device used for measuring retinal nerve fiber loss.
79.	Instrument used for measuring central corneal thickness.
80.	Two disadvantages of direct ophthalmoscopy
81.	Hemianopia indicates
82.	Central visual field includes degrees
83.	Pachymetry is assessment of
84.	Parasympathetic supply to the iris comes from
85.	Opacification of the transparent lens is known as
86.	Schirmer test is done for detecting
87.	87. Purpose of interferometry is
88.	88. Maddox wing is used for
89.	89. Specular reflection is used for
90.	90. Oil droplet sign is seen in
91.	91.CC cards is used at distance.
92.	Lensometer is used for
93.	93One technique of colour vision testing
94.	. Bagolini striated glass is used for
95.	History of seeing coloured haloes is important in
96.	Schirmer test is done for detecting
97.	Scissor shadow is seen in
98.	Maddox wing is used for
99.	Two tests for visual acuity in pre-school children
100.	Mention the purpose of interferometry synaptophore
101.	Name the uses of Maddox wing 103.Accommodation reflex
102.	Schirmer's test 14.Convergence
103.	Perkins tonometer is a type of
104.	Specular reflection is used for examination of
105.	90 D lens is used for

106.	Bjerrum screen is used for
107.	Amsler grid is used for
108.	Schirmer test is done for detecting
109.	Principle of interferometry is used in
110.	Maddox Wing is used for
111.	Specular reflection is used for
112.	Oil droplet sign is seen in
113.	One contra-indication for instilling a cycloplegic eye drop is
114.	One indication of duochrome test is
115.	One cause for deep anterior chamber is
116.	The normal radius of curvature of the anterior surface of the cornea is
117.	One indication for the use of synoptophore is
118.	Corneal endothelial cell count is measured by
119.	scan is contra indicated in intraocular foreign body.
120.	A scan is used to measure
121.	One test for detecting dry eye.
122.	Two uses of convex lens
123.	Aesthesiometer is the instrument to test
124.	van Herick grade of greater than grade is considered as normal or
	open angle
125.	Number of colored caps present in Fransworth D-15 test is
126.	An intraocular pressure of greater than mm Hg is a risk factor for
	glaucoma
127.	Tropicamide plus eye drop produces very good effect
128.	Aesthesiometer is the instrument to test
129.	van Herick grade of greater than grade is considered as normal or
	open angle
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	tonometer is a type of

133.	Specular reflection is used for examination of
134.	90 D lens is used for
135.	Bjerrum Screen is used for
136.	Phorias at near is measured with
137.	Axial length of the eye ball is measured by
138.	Best method of assessment of ocular deviation is by
139.	Blind spot in the field of vision represents
140.	Mention one macular function test
141.	Measurement of phorias for near is done with

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