

# Online Examinations (Odd Sem/Part-I/Part-II Examinations 2021 - 2022)

Course Name - –Optometric Instrumentation

Course Code - BOPT0304

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Answer all the questions. Each question carry one mark.

10. 1. False about Indirect Ophthalmoscope

*Mark only one oval.*

- It produces an inverted real image about 2-5 times magnification
- Stereopsis is absent
- Area of the field in focus is about 8 disc diameter
- Fundus can be viewed upto Ora Serrate

11. 2. Bi temporal Hemianopia is caused by

*Mark only one oval.*

- Pituitary adenoma
- Basal Meningioma
- Corpus Callosal tumor
- Nasopharyngeal Carcinoma

12. 3. The instrument used to measure corneal thickness is

*Mark only one oval.*

- Pachymeter
- Field Analyzer
- Keratometer
- Slit lamp Biomicroscopy

13. 4. Deep anterior chamber is seen in Slitlamp in

*Mark only one oval.*

- Aphakia
- Keratoconus
- Hypermature Cataract
- All of these

14. 5. What is the minimal angle of resolution of an eye with a 6/6 acuity?

*Mark only one oval.*

- 5 Minutes of ARC
- 15 Minutes of ARC
- 1 Minute of ARC
- 10 Minutes of ARC

15. 6. The diameter of a lens is called

*Mark only one oval.*

- Focal Length
- Principle axis
- Aperture
- Radius of Curvature

16. 7. Magnifying power of a simple microscope

*Mark only one oval.*

- Increases with increase in focal length
- Increases with decrease in focal length
- No effect with decrease or increase with the focal length
- Least distance of distinct vision

17. 8. In Slit lamp Biomicroscopy Retro Illumination is used to check

*Mark only one oval.*

- Epithelial Edema
- Lashes
- Contact lens fitting
- Scleral Rigidity

18. 9. Which ray is least deviated by a prism?

*Mark only one oval.*

- Violet
- Red
- Green
- Yellow

19. 10. The stenopaeic slit

*Mark only one oval.*

- can be used to find the principal axes of astigmatism
- is a pinhole that reduces blur resulting from ametropia in the meridian perpendicular to the slit
- can be used to find the best position for optical iridectomy in a patient with corneal scarring
- None of these

20. 11. Jackson's cross cylinder

*Mark only one oval.*

- does not blur the image when placed before an emmetropic eye
- does not change the interval of Sturm according to the position of the Sturm
- does alter the spherical equivalent of an ametropic eye
- is used to check the axis and power of the cylinder subjectively

21. 12. Gonioscope is used to study

*Mark only one oval.*

- Anterior Chamber
- Angle of anterior chamber
- Posterior Chamber
- Retinal illumination

22. 13. Coloured Halos are seen in all except

*Mark only one oval.*

- Cataract
- Angle closure Glaucoma
- Corneal Edema
- Corneal Opacity



23. 14. The following equipment are used in fluorescein angiography:

*Mark only one oval.*

- a fundus camera with optics similar to direct ophthalmoscope
- a filter that allows exciting light less than 510nm
- a filter that allows exciting blue light
- a filter in front of the photographic film or the digital camera that blocks blue light

24. 15. Regarding the condensing lenses used in indirect ophthalmoscope all are true except:

*Mark only one oval.*

- it is usually spherical to reduce aberration
- the image formed is located at or near the first principal focus of the condensing lens
- the stronger the condensing lens used the higher the angular magnification
- the stronger the condensing lens used the larger the field of vision

25. 16. Conditions that cause a superior visual field defect exclude

*Mark only one oval.*

- Cataract
- Ptosis
- BRVO
- Dermatochalasis

26. 17. The following is true about the techniques used in slit-lamp:

*Mark only one oval.*

- uncoupling of the microscope and light source is needed in sclerotic illumination
- specular illumination is best for visualizing the endothelium
- the light and the microscope are co-axial in retro illumination
- All of these

27. 18. Area of fundus seen with direct ophthalmoscope

*Mark only one oval.*

- 1DD
- 2DD
- 3DD
- 5DD

28. 19. All of the following are characteristics of the image formed on Indirect Ophthalmoscopy excepts

*Mark only one oval.*

- Virtual
- Inverted
- Magnified
- Formed between the convex lens and the observer

29. 20. Biomicroscopic examination of the fundus is performed with the help of

*Mark only one oval.*

- 58.6 D Hurby lens
- +78D LENS
- Both -58.6 D Hurby lens and +78D LENS
- All are wrong

30. 21. Diameter of the optic disc

*Mark only one oval.*

- 1.5mm
- 2.5mm
- 5.5 mm
- 3.5 mm

31. 22. Dark adaptation is delayed in all of the following conditions except\_\_\_\_\_

*Mark only one oval.*

- Vitamin A Deficiency
- Pigmentary retinal dystrophy
- POAG
- Heredomacular degeneration

32. 23. VER is useful in the diagnosis of all of the following except

*Mark only one oval.*

- RP
- Retrobulbar Neuritis
- Visual potential in eyes with opaque media
- Optic Atrophy

33. 24. While performing GAT, Conjunctiva is stained with

*Mark only one oval.*

- Rose Bengal Dye
- Fluorescein Dye
- Alcian Blue Dye
- Sodium Dye

34. 25. Indentation tonometer is based on the fundamental fact that a plunger with indent

*Mark only one oval.*

- More in soft eye
- More in hard eye
- Equal in soft and hard eye
- All are wrong

35. 26. Fluorescein angiography is used to identify lesions in all except

*Mark only one oval.*

- Retina
- Lens
- Central retinal artery
- Optic nerve head

36. 27. Thickness of cornea is best measured by

*Mark only one oval.*

- Keratometer
- Pachymeter
- Pentoscope
- Optometer

37. 28. When using a direct ophthalmoscope, the field of view:

*Mark only one oval.*

- is about 6 degrees
- is larger in an eye dilated with mydriatic
- is smaller than that through an indirect ophthalmoscope
- all of these

38. 29. A hypermetropic person having near point at a distance of 0.75 m puts on spectacle of power 2.5D. The near point is now

*Mark only one oval.*

- 0.75m
- 0.83m
- 0.26cm
- 0.26 m

39. 30. Which is a colour Vision test?

*Mark only one oval.*

- Peli Robson Chart
- Ishihara Chart
- Bailey Lovie Log MAR chart
- Perimetry

40. 31. In Slitlamp Biomicroscopy Optic Section is specified to see

*Mark only one oval.*

- Iris
- Retina
- Corneal Nerves
- Cells and Flares

41. 32. A perimetry is used to measure

*Mark only one oval.*

- Central and peripheral fields
- Visual acuity
- Central Visual field
- IOP

42. 33. A focimeter measures the \_\_\_\_\_ of a lens

*Mark only one oval.*

- BVP
- FVP
- Curvature
- Radius

43. 34. The following are true about Jackson's cross cylinder except

*Mark only one oval.*

- it is used to check the axis of the cylinder before the power
- the power of the cylinder is twice that of the sphere and of same sign
- a 0.50D cross cylinder can be written up as +0.25DS/-0.50DC
- a 0.50D cross cylinder has a total cylindrical power of 0.50D

44. 35. Which type of Tonometry is Gold standard for measuring IOP?

*Mark only one oval.*

- Schiottz Tonometry
- Goldman Applanation Tonometry
- Pulse air Tonometer
- Manometer

45. 36. White pupillary reflex is seen in

*Mark only one oval.*

- Retinoblastoma
- Complete RD
- Endophthalmitis
- All of these

46. 37. The image in Indirect Ophthalmoscope is

*Mark only one oval.*

- Erect,Virtual,magnified
- Inverted,virtual,normal
- Inverted,real,magnified
- All are wrong



47. 38. The distance used in Direct Ophthalmoscope is

*Mark only one oval.*

- 10 cm
- 25cm
- 15cm
- 100cm

48. 39. Periphery of retina is best seen with

*Mark only one oval.*

- Retinoscope
- USG
- Direct Ophthalmoscope
- Indirect Ophthalmoscope

49. 40. The OCT (optical coherence tomography):

*Mark only one oval.*

- provides a three-dimensional picture of the retina
- can be used instead of fluorescein angiography in deciding if a diabetic patient requires macular laser
- uses refraction of infrared light to obtain retinal image
- can be used to detect subtle macular oedema

50. 41. The ability to maintain of the visual gaze on a single location

*Mark only one oval.*

- Fixation
- Isopter
- Threshold
- Scotoma

51. 42. An interruption or break in the visual field ,surrounded by a remaining normal visual field

*Mark only one oval.*

- Hill of vision
- Scotoma
- Amsler grid
- All are wrong

52. 43. Central 24-2 pattern in HVF is used for

*Mark only one oval.*

- Glaucoma
- Macula
- Advanced Glaucoma
- Cataract

53. 44. The Keratometric value can be wrong due to

*Mark only one oval.*

- Abnormal lid position
- Excessive tearing
- Localized corneal distortion
- All of these

54. 45. Falsely high reading of IOP can be seen in

*Mark only one oval.*

- Inadequate fluorescence
- Thick Cornea
- Prolong contact
- All are wrong

55. 46. The keratometer:

*Mark only one oval.*

- uses the cornea as a convex mirror in the measurement of corneal curvature
- measures only the central 3 mm of the cornea
- can be misleading in patients who have had corneal transplantation
- All of these

56. 47.If the reflex moves in the same direction as the retinoscope, this is called with movement and we add \_\_\_ lenses and the eye is \_\_\_ at this working distance

*Mark only one oval.*

- Plus,Myopic of D
- Plus,Hyperopic
- Minus,Hyperopic
- Minus,Myopic

57. 48. The crystalline lens:

*Mark only one oval.*

- has an in-situ effective power of +15.00D
- contributes more power than the cornea towards the refraction of the eye
- if extracted without implant can correct myopia who needs spectacle correction of -15.00D
- has a longer radius of curvature anteriorly than posteriorly

58. 49. An emmetropic eye requires \_\_\_\_ lens for neutrality,if the working distance is 67cm

*Mark only one oval.*

- +1.50D
- 0.75D
- +0.50D
- +1.00D

59. 50. The advantages of indirect ophthalmoscope over direct ophthalmoscope include:

*Mark only one oval.*

- erect image
- higher magnification
- the instrument is smaller size
- binocular view

60. 51. The focal length of a lens is

*Mark only one oval.*

- Inversely proportional to radius of the lens
- Directly proportional to the power in diopter
- Inversely proportional to power in diopter
- Is not related to power to diopter

61. 52. The following tests are used in testing the vision of pre-verbal children except:

*Mark only one oval.*

- Log MAR
- Catford drum
- Sheridan-Gardiner tests
- Cardiff card

62. 53. Pinhole performs except:

*Mark only one oval.*

- improves ametropia of less than 6 D
- if less than 1mm diameter, impairs the image quality
- increases the depth of focus
- increases the depth of field

63. 54. Ophthalmometer is also known as

*Mark only one oval.*

- Retinoscope
- Keratometry
- Ophthalmoscope
- Lensometer

64. 55. In indirect ophthalmoscopy, the field of view is affected by:

*Mark only one oval.*

- size of the patient's pupil
- the refractive state of the observer
- power of the condensing lens
- None of these

65. 56. The following is true about the keratometer:

*Mark only one oval.*

- in the Javal-Schiøtz instrument, the object size is fixed
- in the Javal-Schiøtz instrument, each step of the mire is equivalent to 1/2 a dioptre
- Wollaston prism is used in Javal-Schiøtz instrument
- the power of the cornea is equal to 35 divided by the radius of curvature in mm

66. 57. In retinoscopy at the neutrality, the pupil of the patient is suddenly filled with light and \_\_\_\_ motion is observed

*Mark only one oval.*

- With
- Against
- Scissor
- No

67. 58. If the reflex moves in the opposite direction to the retinoscope, this called against movement and we add \_\_\_\_ lenses and the eye is \_\_\_\_ at this working distance.

*Mark only one oval.*

- Plus, Myopic
- Minus, Myopic
- Minus, Astigmatism
- Plus, Astigmatism

68. 59. Magnification of Direct Ophthalmoscopy is

*Mark only one oval.*

5X

10X

15X

30X

69. 60. Visual acuity test is a test of

*Mark only one oval.*

Light sense

Colour sense

Contrast sense

Form sense

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