

# Online Examinations (Even Sem/Part-I/Part-II Examinations 2020 - 2021)

Course Name - Optometric Optics II

Course Code - BOPT0401

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Answer all the questions. Each question carry one mark.

9. 1. Regarding the Geneva Lens measure which one is false among these?

*Mark only one oval.*

- It can only be used to measure crown glass
- It measures the base curve of a lens
- It makes use of the principle that the total power of a thin lens is equal to the sum of its surface power
- It can be used to measure the thickness of a lens

10. 2. The following is true about the identify of an unknown lens when viewed through a cross made up of two lines crossed at 90 degree

*Mark only one oval.*

- An astigmatic lens always causes distortion of the cross
- If the cross moved in opposite direction to the lens,the lens is likely to be concave
- Displacement of the line on cross suggests the absence of prism within the lens
- Scissors' movement of the cross when the lens is rotated suggests the lens is astigmatic

11. 3. The Focimeter

*Mark only one oval.*

- Contains a collimating lens that converge the incoming light
- Uses green light to eliminate spherical aberration
- Contains a telescope system for viewing
- Contains a convex collimating lens

12. 4. The Focimeter can measure

*Mark only one oval.*

- Back vertex power of the lens
- Prism
- Axis of the cylinder
- All of these are correct

13. 5. Regarding tinted lens which statement is not true?

*Mark only one oval.*

- The protective goggles used in laser room are made up off tinted glass
- They work by either absorbing the light or reflecting the light
- The lenses always change colour with light
- Lenses with solid tint have uniform light absorption throughout

14. 6. Photochromatic lenses follwing statements are applicable

*Mark only one oval.*

- Usually have a more rapid darkening process than lightening process
- Give differences tints according to the wavelengths
- Tend to darken more rapidly if the enviourmental temperature is low
- All of these are correct

15. 7. Frame PD can be find out by

*Mark only one oval.*

- A size+Bsize
- A size- B size
- A size +DBL (bridge size)
- A size - DBL (Bridge size)

16. 8. An eyewear without complete rim is known as

*Mark only one oval.*

- Mounting
- Zyl Frame
- Full frame
- Half eye

17. 9. Frames without temple is known as

*Mark only one oval.*

- Lorgnette
- Rimless
- Pince-nez
- None of these is correct

18. 10. None of these is correct

*Mark only one oval.*

- Extrusion
- Forming and shaping
- Finishing
- Heat treatment

19. 11. If the actual image point in the image plane lies closer to the axis, than its ideal position, the distortion is said to be

*Mark only one oval.*

- Pincushion type
- Oblique type
- Barrel type
- Cylindrical type

20. 12. Greenish tint of glass is due to

*Mark only one oval.*

- Silica
- Iron oxide
- Lead oxide
- cupric oxide

21. 13. Elongated penetration of the surface without splintering is called

*Mark only one oval.*

- Scratch
- Bruise check
- Slick
- Drag mark



22. 14. Isekonic lenses are also known as

*Mark only one oval.*

- Plano lens
- Size lens
- Crossed lens
- Omega lens

23. 15. Divide the prisms between the eyes : R 16PD BI

*Mark only one oval.*

- R 8 PD BI & L 8 PD BI
- R 8 PD BI & L 8 PD BO
- R 9 PD BI & L 5 PD BI
- R 9 PD BI & L 5 PD BO

24. 16. Geneva lens measure is calibrated for

*Mark only one oval.*

- 1.49
- 1.69
- 1.75
- 1.52

25. 17. Long term exposure to infrared radiation results in

*Mark only one oval.*

- Heat cataract
- Blue Dot cataract
- Versatile cataract
- Stellate cataract

26. 18. Instrument used to plot the transmission curve

*Mark only one oval.*

- Radiometer
- Transmitter
- Spectrometer
- Spectrophotometer

27. 19. IR absorbing filters have \_\_\_\_\_ colour due to the presence of

*Mark only one oval.*

- Yellow, Sulfuric acid
- Green, Ferrous oxide
- Brown, Cobalt ammonium
- Blue, Copper sulphate

28. 20. Filters that do not distort colour values are

*Mark only one oval.*

- Isocool
- Kalichrome
- Neutral filters
- Zeiss filters

29. 21. Polarizing filter transmits plane polarized light if the plane of vibration of the light is \_\_\_\_\_ to the polarizing axis of the filter

*Mark only one oval.*

- Equal
- Perpendicular
- Parallel
- Exceeds critical angle

30. 22. Process of heating the lenses to softening point and then cooling rapidly is called

*Mark only one oval.*

- Thermal
- Toughening
- Truing
- Laminating

31. 23. Cementing thin layer of plastic material between two glass blank is called

*Mark only one oval.*

- Thermal
- Toughening
- Truing
- Laminating

32. 24. In positive spherical aberration, peripheral rays have a \_\_\_\_\_ focal length compared to the central rays

*Mark only one oval.*

- Longer
- Shorter
- Equal
- Half eye

33. 25. Orthoscopy is a condition wherein there is no

*Mark only one oval.*

- Oblique astigmatism
- Distortion
- Coma
- Spherical aberration

34. 26. The type of aberration that is commonly seen with high powerd lenses is

*Mark only one oval.*

- Spherical aberration
- Coma
- Oblique astigmatism
- Distortions

35. 27. With increasing steepness of the base curve,the size of the ring scotoma

*Mark only one oval.*

- Increases
- Decreases
- Remains same
- Variable

36. 28. Which of the following aberrations cause significant error in high plus lenses

*Mark only one oval.*

- Coma
- Distortion
- Chromatic aberrations
- Oblique astigmatism

37. 29. For every degree of pantoscopic tilt, the optical center should be lowered

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*Mark only one oval.*

0.1mm

0.2mm

1mm

0.5mm

38. 30. Polaroscopic is used to detect

*Mark only one oval.*

Veins

Bubbles

Strain

Feathers

39. 31. Bubbles are minimum in

*Mark only one oval.*

Barium glasses

Flint glass

Double extra dense flint glasses

Crown glasses

40. 32. Lead content of flint glasses can cause

*Mark only one oval.*

- Greyness
- Polishing burn
- Tarnish
- Crazing

41. 33. Name the bending of light, if the beam of light passes obliquely from one medium to another

*Mark only one oval.*

- Refraction
- Dispersion
- Deviation
- Reflection

42. 34. Where does the principal axis intersect the two refracting surfaces?

*Mark only one oval.*

- Focal length
- Front vertex and back vertex
- Principal focus
- Radius of curvature

43. 35. The power of lens is

*Mark only one oval.*

1/p

1/l

1/q

1/f

44. 36. Glasses show evidence of \_\_\_\_\_ fractures.

*Mark only one oval.*

No

Brittle

Ductile

Oblique astigmatism

45. 37. The distance between the optical center and principal focus is

*Mark only one oval.*

radius

focal length

2 focal length

linear length



46. 38. Lens weight is less of a problem for the high \_\_\_\_\_ than for the high \_\_\_\_\_

*Mark only one oval.*

- Myope,Hyperope
- Hyperope,myope
- Hyperope,astigmatism
- None of the these

47. 39. A pantoscopic tilt of \_\_\_\_\_ degree is usually considered cosmetically desirable

*Mark only one oval.*

- 4
- 6
- 9
- 12

48. 40. Lenses that reduces or minimize aberration or peripheral defects are called

*Mark only one oval.*

- Aspheric lenses
- Spherical lenses
- Design lenses
- Monocurve Lenses

49. 41. Bull's eye appearance is produced by \_\_\_\_\_ lens

*Mark only one oval.*

- High index lens
- High powered plus lens
- High powered negative lens
- Tinted lens

50. 42. The central portion of the lenticular lenses in which the prescription exists is called

*Mark only one oval.*

- Margin
- Core
- Aperture
- Principle

51. 43. For a lens,if the distance PD is 64 mm and near PD is 60 mm,the segment inset is

*Mark only one oval.*

- 4 mm
- 2 mm
- 6 mm
- 10 mm

52. 44. Thermoplastic polycarbonate lenses are made by a process called

*Mark only one oval.*

- Injection molding
- Casting
- Cementing
- Thermosetting

53. 45. The distance prescription is -2.50DS/ -1.00 DC @100; Near prescription is -0.50DS/ -1.00DC @100 ,the reading add is

*Mark only one oval.*

- 3.00 DS
- 3.50DS
- 2.00DS
- 1.50DS

54. 46. For a distance correction of +3.00DS and a PD of 66/62, the prismatic effect at the near PD, caused by the distance power is

*Mark only one oval.*

- 0.6PD BO
- 0.4 PD BI
- 0.3 PD BD
- 0.3 PD BI

55. 47. The following are the problems faced with high powered lenses except

*Mark only one oval.*

- Decreased field of view
- Increased lens aberration
- Increased field of view
- Ring scotoma

56. 48. As the Abbe number for a given material increases, the chromatic aberration

*Mark only one oval.*

- Decreases
- Increases
- Remains the same
- Varies with material

57. 49. Which one of the following frame material is 'Thermoelastic' in nature?

*Mark only one oval.*

- Cellulose Acetate
- Optyl
- Shell
- None of these is correct

58. 50. Match the description given below with 'Carbon fibre'

*Mark only one oval.*

- A nylon based material that can be made translucent
- Made from liquid resin and hardner mix together and drown into frame molds
- Frame material that can be made thin and lightweight,breaks in cold water
- Rubberized material of high flexibility

59. 51. Name the material which is extremely lightweight,can be made thin, will not rust

*Mark only one oval.*

- Monel
- Titanium
- Stainless Steel
- German silver

60. 52. Name the frame material which is strong and highly resistant to corrosion often used as temple based metal

*Mark only one oval.*

- Aluminium
- Stainless steel
- Nickel silver
- Titanium

61. 53. Most of the metal frames comes with this type of bridge, where the nose pads are attached to the frames by the metal arms usually call it as

*Mark only one oval.*

- Saddle Bridge
- Pad Bridge
- Keyhole
- Modified saddle

62. 54. Material which is used to manufacture ophthalmic lenses but it can be molded into frames also primarily used for sports and safety purpose

*Mark only one oval.*

- Nylon
- Polycarbonates
- Kevlar
- Zylonate

63. 55. Aluminium is

*Mark only one oval.*

- White in colour,pliable,accpts high polish
- Strong,lightweight,finished into variety of colours does not corrode
- Strong ,heavy,more resistant to corrosion
- None of these is correct

64. 56. Calculate the segment height for given parameters,  $A=55$  mm , $C=53$  mm with a frame difference of 7 mm,segment drop= 6mm , $DBL=17$  mm

*Mark only one oval.*

- 20mm
- 18mm
- 25mm
- 22mm

65. 57. The given round frame has following dimensions, $A=59$ mm  $B=55$  mm , $D= 17$  mm ,  $ED=59$  , and measured  $IPD=68$  mm, calculate the MBS :

*Mark only one oval.*

- 67 mm
- 65 mm
- 69 mm
- 78 mm

66. 58. The ANSI standard details of safety frame must be marked

*Mark only one oval.*

- Z80 on both sides of the temple
- Z87 on the frame front only
- Z80 on the frame front and both the temples
- Z87 on the frame front and both the temples with manufacturer name

67. 59. Calculate the ED of given frame has the dimension  $A=50$  mm,  $C=49$  mm,  $DBBL=17$  mm with frame difference of zero

*Mark only one oval.*

- 49 mm
- 50 mm
- 52 mm
- 54 mm

68. 60. Segment height is usually measured from

*Mark only one oval.*

- Segment top of the segmented bottom
- Segmented top to lower lens edge where, it touches eyewire
- Segmented top to the near optic center
- None of these is correct

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