

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

Course Name - --Optometric Optics-I

Course Code - BOPT0303

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Answer all the questions. Each question carry one mark.

10. 1. Which of the following is correct?

Mark only one oval.

- (near power) - (distance power) = (near Rx)
- (near power) - (distance power) = (near addition)
- (near addition) = (distance power) - (near power)
- None of these

11. 2. The image formed by a prism is

Mark only one oval.

- Deviated towards Apex
- Magnified
- Real
- Diminished

12. 3. This lens has what appears to be a large round segment at the top of the lens and no segment at the bottom. The round segment area at the top is the distance prescription, and the rest of the lens contains the near add. It is called:

Mark only one oval.

- A quadrafocal
- an ED
- a DBL
- a Rede-Rite

13. 4. An Executive lens is an example of which type of construction?

Mark only one oval.

- fused
- one piece
- Cement segment
- PAL

14. 5. The following prescription has against-the-rule astigmatism:

Mark only one oval.

- +1.00 / +0.25 X 180
- 1.00 / -0.25 X 180
- 1.00 / +0.25 X 90
- +1.00 / -0.25 X 135

15. 6. The following is true about the spherical equivalent:

Mark only one oval.

- it is located at the circle of least confusion in the conoid of Sturm
- it is equals to the dioptric powers of the two cylindrical lenses that make up the astigmatic lens
- it can be used to calculate if the eye is not essentially emmetropic, myopic or hypermetropic
- it is calculated by adding the spherical power to half the cylindrical power

16. 7. In frame measurement 'B' refers to

Mark only one oval.

- $2 \times$ (longest radius)
- vertical boxing dimension
- GCD
- All of these

17. 8.The frontal angle is:

Mark only one oval.

- the angle from which the front crest of the nose deviates from the vertical when viewed from the side
- the angle from which the side of the nose deviates from the horizontal when viewed from above
- the angle from which the side of the nose deviates from the vertical when viewed from straight ahead
- None of these

18. 9. A 6 PD Base out and an 8PD base down prism are replaced by a single prism .What is the power of this prism?

Mark only one oval.

- 10PD
- 14PD
- 7PD
- 2PD

19. 10.Transposition of $+4.00/-4.00@130$ can be

Mark only one oval.

- $-3.00/-1.00@130$
- $-4.00@30$
- $4.00/+4.00@130$
- $+4.00@40$

20. 11. An image seen through the prism

Mark only one oval.

- Inverted
- Titled
- Near the Apex
- Near the Base

21. 12. The prism diopter is the unit for prisms and it represents

Mark only one oval.

- The angle of incidence in degree
- The angle of the apical angle
- The amount of image displacement
- All are wrong

22. 13. An angle of 1 radian results in an arc with an equal length to the

Mark only one oval.

- 55cm
- Diameter of the circle
- Radius of the circle
- 10cm

23. 14. 1 prism diopter = ____ degrees

Mark only one oval.

- 0.57
- 57
- 1.57
- 105

24. 15. A 20 PD BU prism will displace an image by what distance at a viewing distance of 5m? In what direction will the image have displaced?

Mark only one oval.

- 100 cm,towards base
- 100 cm,towards apex
- 50 cm,towards base
- 50 cm,towards apex

25. 16. A prism is able to displace an image by 4 degree. What is the power of the prism?

Mark only one oval.

- 5 PD
- 7PD
- 2PD
- 3PD

26. 17. What is the name of an instrument that is a tower of mini prisms that are 1 mm thick?

Mark only one oval.

- Risley prism
- Fresnel Prism
- Tower Prism
- All of these

27. 18. When part of the lower, nasal portion of a lens shape is removed to allow for a better fit, it is called a

Mark only one oval.

- Nasal cut
- Frontal angle adjustment
- Pantoscopic tilt
- Power cut

28. 19. Which of the following is not an important criterion in choosing a frame for a progressive addition lens wearer?

Mark only one oval.

- adequate pantoscopic tilt
- a minimal vertex distance
- sufficient vertical depth in the nasal portion of the frame shape
- all of the these are important criterion when choosing a frame for a progressive addition lens wearer

29. 20. Which of the following should be avoided when fitting a high minus wearer?

Mark only one oval.

- smaller eye size
- squared-off corners
- an antireflection coating
- aspheric lenses

30. 21. Which of the following is not a good frame characteristic for a person having a high plus lens prescription?

Mark only one oval.

- library temples
- as regular a lens shape as possible
- adjustable bridge
- high index lenses

31. 22. Of the frame characteristics listed below, which is the least desirable for children?

Mark only one oval.

- deeply grooved frame fronts
- bridges that give support in the area of the lower portion of the nose pad
- spring temples
- nylon cord frame construction

32. 23. A semifinished lens blank has

Mark only one oval.

- only one side of the lens finished
- Both of the sides are finished
- has the correct power but not the other components
- All are wrong

33. 24. A new bifocal wearer must:?

Mark only one oval.

- keep the head erect and drop the eyes to see the floor
- drop the eyes to read a book
- drop the chin and head to engage in near work
- All of these

34. 25. The left lens is closer to the face than the right lens, therefore:

Mark only one oval.

- the left seg will seem higher to the wearer than the right
- the right seg will seem higher to the wearer than the left
- there will be no effect on the apparent subjective height of the segs
- All are wrong

35. 26. A distometer is used to:

Mark only one oval.

- measure the distance between lenses and the frame eye size
- measure the segment height
- measure the power of a spectacle lens
- measure the vertex distance

36. 27. When a lens is measured in the normal manner, with the back side of the lens against the lensmeter stop, the power being measured is called:

Mark only one oval.

- The equivalent power
- The effective power
- The front vertex power
- The back vertex power

37. 28. A lens has a front vertex power in the distance portion that reads $+4.87 - 1.25 \times 165$. The front vertex power through the near addition reads $+6.62 - 1.25 \times 165$. What is the add power?

Mark only one oval.

- +1.75D
- +2.50D
- 1.75D
- 3.00D

38. 29. When verifying lens powers for a pair of glasses, always:

Mark only one oval.

- Start with the right lens
- Start with the left lens
- Start with the lens with the highest power in the 90-degree meridian.
- Start with the lens with the highest power in the 180-degree meridian.

39. 30. To check for strain in a lens, what instrument is used?

Mark only one oval.

- Retinoscope
- Ophthalmoscope
- Colmascope
- Lensmeter

40. 31. What is the meridian of highest absolute power for this prescription: $-1.50 -2.75 \times 180$?

Mark only one oval.

- 1.50 D
- 4.25 D
- 2.75 D
- 1.25 D

41. 32. Retrosopic tilt” is manifested:

Mark only one oval.

- When the top of the frame front is closer to the wearer’s face plane than the bottom of the frame front
- When the bottom of the frame front is closer to the wearer’s face plane than the top of the frame front
- When one lens is closer to the wearer’s face plane than the other lens
- When one lens is higher on the wearer’s face than the other lens.

42. 33. One should not use heat in adjusting a conventional plastic frame when:

Mark only one oval.

- bending the temple earpiece
- changing the bridge area
- changing the pantoscopic angle
- one should always use heat when adjusting a plastic frame

43. 34. Of the lens materials listed, which material is most likely to break, crack, or develop stress splits at the mounting point when used for rimless drill mountings?

Mark only one oval.

- Polycarbonate
- CR-39 plastic
- Trivex
- All of these

44. 35. Abbe value of Crown glass

Mark only one oval.

- 58
- 47
- 59
- 46

45. 36. Refractive index for High index plastic

Mark only one oval.

- 1.66
- 1.7
- 1.532
- 1.596

46. 37. Which of the following statements is correct?

Mark only one oval.

- Seg height is always equal to seg depth
- Seg depth is always greater than or equal to seg height
- Seg height is always greater than or equal to seg depth
- All are wrong

47. 38. Which of the following multifocal construction methods are used only with glass?

Mark only one oval.

- fused
- one piece
- Cement segment
- All of these

48. 39. This material is made from a liquid resin and a hardener that are mixed together and drawn into the frame molds using a vacuum process

Mark only one oval.

- Optyl
- CA
- Propionate
- Carbon fibre

49. 40. When children are fit with progressive addition lenses, yet still have the ability to accommodate just as other children do, the fitting cross is usually fit

Mark only one oval.

- at the lower lid
- 4 mm above pupil center
- 2 mm above pupil center.
- in the center of the pupil

50. 41. An aphakic patient wears +10D glasses at a vertex distance of 10mm. What power of the contact lens should be ordered to fit?

Mark only one oval.

- +9D
- +10D
- +11D
- +9.5D

51. 42. Transposed form of $-5.00/+3.00@50$ Degree will be

Mark only one oval.

- $-2.00/-3.00@140$
- $+2.00/-3.00@50$
- $-2.00/+3.00@140$
- $+2.00/-3.00@140$

52. 43. ____ Made especially for those needing a reading correction but no distance correction

Mark only one oval.

- Balgrip
- Full rim
- Half eye
- Semi rimless

53. 44. Match the following term: _____ earpiece

Mark only one oval.

- reading
- Curl
- only nasal
- has memory

54. 45. A frame material that is generally made into sheets and milled to make frames

Mark only one oval.

- kevlar
- polycarbonate
- cellulose acetate
- optyl

55. 46. The refracting power of a cylindrical lens is at _____ degrees to the axis.

Mark only one oval.

- 360
 180
 90
 45

56. 47. The larger the frame difference, the _____ the lens shape

Mark only one oval.

- rounder
 more squared off
 narrower
 wider

57. 48. Which type of temple curves around the ear following the crotch of the ear where ear and head meet, extending to the level of the earlobe? This type of temple is usually plastic, and is often used in children's and safety frames.

Mark only one oval.

- riding bow
 convertible
 library
 skull

58. 49. Is often used for temples because of its strength and flexibility

Mark only one oval.

- Silver
- Monel metal
- Stainless steel
- All are wrong

59. 50. If the eyelashes rub the back surface of the lenses, the fitter should:

Mark only one oval.

- spread the temples
- increase the vertex distance
- raise the frame.
- spread the nose pads

60. 51. If a single-vision lens is placed in the lensmeter in the reverse position (concave side toward the observer), the power value obtained is a measure of:

Mark only one oval.

- back vertex power
- front vertex power
- effective power
- true power

61. 52. In bifocals, when the segment is round, the segment's OC will be in the _____ of the seg

Mark only one oval.

- right
- left
- middle
- All are wrong

62. 53. When wearers drop their eyes while wearing single vision lenses, prismatic effect _____ as the eyes travel downward

Mark only one oval.

- increases
- decreases
- has no change
- become nil

63. 54. Abbe value of CR-39 is

Mark only one oval.

- 58
- 59
- 46
- 24

64. 55. Which of the following is not a suggested method for viewing the hidden markings on a progressive addition lens?

Mark only one oval.

- Hold the lens so that its surface may be viewed in a mirror by reflected light.
- Backlight the lens and hold it in front of a black background.
- Hold the lens up so that it may be viewed with a fluorescent light source behind it
- All of these are recommended methods for viewing the hidden surface markings on a progressive addition lens

65. 56. The correct ophthalmic terminology for eyewear that is used for everyday and not for sports or safety wear

Mark only one oval.

- casual eyewear
- everyday eyewear.
- formal eyewear
- dress eyewear

66. 57. Transposed form of $+12.00/+3.00@90$ will be

Mark only one oval.

- $+15.00/-3.00@90$
- $+15.00/-3.00@180$
- $+13.00/-5.00@90$
- $-13.00/+5.00@90$

67. 58.A -2.00 D thin lens having a front surface power equal to $+6.00$ D could be described as:

Mark only one oval.

- Meniscus
 planoconcave
 equiconcave
 planoconvex

68. 59.A lens has a focal length of $+66.67$ cm. What is its power?

Mark only one oval.

- $+3.00$ D
 $+1.50$ D
 $+6.67$ D
 $+0.02$ D

69. 60. This lens with toric surfaces on both the front and the back is called _____ lens

Mark only one oval.

- Bionic
 Bitoric
 Equitoric
 None of these

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