35/40

CALIFORNIA OPTICAL LICENSE SCHOOL
Fall Session, 1990
V

D 1. Fused bifocals are available in a variety of styles. Which of the below listed lenses can be manufactured with a fused segment?

a. Executive
b. Progressive
c. Ultex
d. Flat Top

A 2. In a round bifocal segment, you will find the optical center located:

a. in the geometric center
b. 4mm from the top of the segment
c. at the very top of the segment
d. at the very bottom of the segment

C 3. The intermediate power most common in trifocal lenses is:

a. 70%
b. 60%
c. 50%
d. 40%

C 4. Which of the folowing bifocal segments contain the least amount of image jump.

a. Ultex
b. Blended
c. Flat Top
d. Round

MING 5. RX: -2.00 -0.75 x 30 ADD: +2.00
If this lens was made utilizing a standard trifocal design, what would be the power through the intermediate portion?

a. Pl -0.75 x 30
b. +1.00 -0.75 x 30
c. Pl -0.75 x 120
d. +1.00 -0.75 x 120

-1.00. -0.75 x30

B 6. The refractive index of Hi-lite glass lenses containing titanium is:

a. 1.490
b. 1.70
c. 1.523
d. 1.586

C 7. Bifocals are most often used to correct a condition called:

a. hyperopia
b. myopia
c. presbyopia
d. ametropia

B 8. Lens surfaces made with aspheric curves are most often used with:

a. sunglasses
b. cataract Lenses
c. occluder Lenses
d. low powered lenses

C 9. Occupational multifocal lenses are useful for a variety of professions. A double segment "D" style lens might be worn by:

a. an accountant
b. a teacher
c. an electrician
d. a lawyer

A D 10. The "ledge" on an executive style bifocal lens is created by:

a. the power of the reading addition.
b. the position of the distance optical center
c. the center thickness
d. the lens diameter

B 11. A patient presents you with the following prescription: +9.25 DS in each eye with a +2.50 reading addition. This Rx cannot be filled with which of the following styles?

a. Round segment
b. Franklin style
c. Flat top

B 12. Progressive multifocal lenses are not recommended for:

a. early presbyopes
b. aphakic patients
c. cosmetic lenses
d. progressive myopes

D 13. The best candidates for progressive powered lenses are:

a. satisfied trifocal wearers
b. aphakic patients
c. half-eye wearers
d. early presbyopes

D 14. Polycarbonate is commonly used in:

a. sunglasses and sports eyewear
b. welding helmet windows
c. industrial safety glasses
d. all of the above

A 15. The index of refraction of polycarbonate is:

a. greater than crown glass
b. the same as CR39
c. less than CR39
d. greater than Hi-Lite glass

D 16. The most common percentage of a bifocal intermediate power is:

a. 70%
b. 60%
c. 40%
d. 50%

C 17. The base curve of any multifocal lens is found on the surface containing the:

a. cross curve
b. cylinder surface
c. segment
d. ocular curve

B 18. In order to maintain proper corrected curve grinding as minus power increases, the dispenser should recommend:

a. the use of tinted lenses
b. a flatter front curve
c. a steeper front curve
d. aniseikonic lenses

D 19. What base curve is recommended when grinding a single vision glass lens Rx: +6.50 -2.00 x 165?

a. +3.00
b. plano
c. +6.00
d. +10.00

D 20. Trifocals are most generally prescribed when the patient is:

a. at least 60 years old
b. a presbyope
c. about 45 years old
d. an advanced presbyope

B 21. Hi-lite lenses have a refractive index of:

a. 1.48
b. 1.70
c. 1.58
d. 1.53

B 22. Progressive power lenses require the following measurements in order to be accurately fit:

a. binocular PD and binocular segment height
b. monocular PD and monocular segment height
c. binocular PD and monocular segment height
d. monocular PD and binocular segment height

D 23. Of the lens materials listed below, which is the most impact resistant?

a. Crown glass
b. CR 39
c. Hi-Lite glass
d. Polycarbonate

D 24. Of the lens materials listed below which contains the greatest amount of color dispersion?

a. Crown glass
b. CR 39
c. Hi-Lite glass
d. Polycarbonate

A 25. RX: +2.75 - 1.00 x 120
+2.50 - 0.75 x 110
Add: +2.25
The patient has requested a pair of single vision lenses to use exclusively for reading at the near point. What will be the power of these lenses?

a. +5.00 - 1.00 x 120
+4.75 - 0.75 x 110

b. +5.00 sph
+4.75 sph

c. +5.00 - 1.00 x 30
+5.00 - 0.75 x 30

d. None of the above.

D 26. What base curve is recommended using the single vision Rx below?

-4.00 -0.50 x 145
-3.00 -0.50 x 145

a. plano
b. +7.00
c. +10.00
d. +3.00

D 27. Which base curve would be the best selection for Rx OU +3.00 +0.50 x 090?

a. plano
b. -5.00
c. +3.00
d. +8.00

B 28. Which of the following occupations would be best suited with a double segment lens?

a. accountant
b. electrician
c. teacher
d. lawyer

A 29. An advantage of a round segment bifocal over the executive type is_____.

a. it is less conspicuous
b. it has greater width
c. it is color free
d. all of the above

B 30. Who is not a potential candidate for progressive powered lenses?

a. pseudophakic patient
b. aphakic patient
c. progressive myope
d. early presbyope

B 31. The reading Rx for a -4.25 -1.25 x 90, +2.00 add is:

a. -6.25 -1.25 x 90
b. -2.25 -1.25 x 90
c. -4.25 -3.25 x 90
d. +2.00

A B 32. Which of the following lens designs produce the least off-axis viewing blur?

a. corrected curve
b. meniscus
c. biconcave
d. periscopic

D 33. The power of the ADD is the difference between:

a. the front vertex measurement of distance and near.
b. the back vertex measurement of distance and near.
c. the front vertex distance and back vertex near.
d. the vertex measurement of distance and near of the segment surface.

B 34. If your lensometer reads -0.25 D with no lens, a lens that measures -3.00 -1.50 x 180 is actually:

a. -2.75 -1.25 x 180
b. -2.75 -1.50 x 180
c. -3.25 -1.75 x 180
d. -3.25 -1.50 x 180

B 35. When considering the problems of a cataract spectacle wearer, patients are *most* bothered by:

a plastic aspheric lenses
b. off-axis perceptual problems
c. reflections on the lenses
d. cosmetic disadvantages

SUPPLEMENTARY QUESTIONS
COMMUNICATION WITH CONSUMER

C 36. Objections may be considered by a salesman as positive if:

a. it gives him a chance to criticize the last pair of glasses.
b. it gives him a chance to assure the consumer that his objections are unrealistic.
c. they represent a point of discussion which may result in a valuable exchange of information.
d. it shows him what sort of person the consumer is.

A 37. An optician's best protection is to understand that the _____ is protected by federal and state laws.

a. refractionist
b. supply house
c. consumer
d. manufacturer

C 38. The prime responsibility for ensuring the safety of products belongs to the:

a. refractionist
b. consumer
c. manufacturer
d. transporter

D 39. Prior to the adoption of the Prescription Release Rule, it was not _____ for the prescribing eye doctor to give the consumer the prescription.

a. practical
b. ethical
c. recommended
d. mandatory

B A

___40. Probably the most crucial element in a malpractice claim based on negligence has been characterized as:

a. failure to warn
b. standard of care
c. failure to inspect
d. expert testimony