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TEE/BOPTO601/2019/2021 - 22



Brainware University
Barasat, Kolkata - 700125

BRAINWARE UNIVERSITY

Term End Examination 2021 - 22
Programme – Bachelor of Optometry
Course Name – Contact Lens - II
Course Code - BOPTO601
(Semester VI)

Time allotted : 1 Hrs.15 Min.

Full Marks : 60

[The figure in the margin indicates full marks.]

Group-A

(Multiple Choice Type Question)

1 x 60=60

Choose the correct alternative from the following :

- (1) The chances of complications is highest in-
 - a) extended wear lenses
 - b) daily wear lenses
 - c) flexible wear lenses
 - d) daily disposable lenses
- (2) Tinted Contact lenses are indicated in all conditions except
 - a) corneal opacity
 - b) amblyopia patching
 - c) changing eye colour for cosmetic use
 - d) all
- (3) The usual diameter of a sclera lens ranges from
 - a) 9mm-10mm
 - b) 12mm-16mm
 - c) 16mm-18mm
 - d) 18mm-20mm
- (4) 3 point touch fitting is used in case of-
 - a) keratoconus
 - b) paediatric aphakia
 - c) corneal scar
 - d) none
- (5) The ratio of CO₂ permeability to O₂ permeability for the main material categories are except-
 - a) 2:1 for hydrogels
 - b) 7:1 for rigid gas permeable lenses
 - c) 8:1 for silicone elastomers
 - d) 1:1 for hard lenses
- (6) Tight fit contact lens shows signs of-
 - a) uniform lens coverage
 - b) circumciliary congestion
 - c) fluctuating vision clears on blinking
 - d) all the above
- (7) Loose fit contact lens shows signs of-
 - a) lens coverage showing eccentric movement >1
 - b) variable vision blurs on blinking

- a) apparent front surface corneal curvature
c) sagittal radius
- b) limited to central 3mm appx.
d) all
- (20) All are true of centre distance designed bifocal contact lenses except
- a) low illumination favouring near vision
c) the centre has maximum add power
- b) high illumination favouring distance vision
d) the centre has minimum add power
- (21) Prosthetic contact lens is given in-
- a) microphthalmos
c) corneal scars
- b) failed grafts
d) all
- (22) All are the types of tint except-
- a) transparent
c) semi-opaque
- b) opaque
d) translucent
- (23) all are the feature of reverse geometry lenses except-
- a) 1st peripheral curve is flatter than base curve
c) produces rapid and stable change in corneal curvature
- b) 1st peripheral curve is steeper than the base curve
d) poor centration
- (24) The maximum reduction in myopia achieved with orthokeratology in most studies is-
- a) $\leq 5D$
c) $\leq 2 D$
- b) $\leq 10 D$
d) $\leq 8 D$
- (25) The disadvantage of orthokeratology is-
- a) it is not a permanent solution
c) potential for non-compliance
- b) limited correction of refractive error
d) both eyes are altered at same time
- (26) Multifocal soft contact lenses shows a reduction of myopia progression and axial elongation by-
- a) 0.2
c) 0.52
- b) 0.38
d) 0.9
- (27) The factors associated with slow rate of progression with orthokeratology is-
- a) large pupil dia
c) steeper or more prolate cornea
- b) deep AC
d) all the above
- (28) All are true of the optical correction for myopia except-
- a) peripheral retina is not a major component of refractive error
c) single vision contact lenses results peripheral hyperopia
- b) axial elongation decreases with peripheral myopia
d) center-distance multifocal soft contact lenses results peripheral myopia
- (29) All are true of scleral lenses except-
- a) higher oxygen permeability
c) increased corneal physiology
- b) relies on tear exchange beneath the contact lens
d) anterior segment OCT aids fitting
- (30) the indications of fitting scleral contact lenses are-
- a) irregular astigmatism
c) ocular surface disorders
- b) poor centration with GP lenses
d) all the above
- (31) The appropriate apical clearance for scleral lens is-
- a) 100-200 μ
- b) 200-400 μ

- c) 400-800 μ d) >800 μ
- (32) The initial base curve selected for scleral lens trial is-
- a) on K +2D b) on K
c) mean K +1D d) mean K -1D
- (33) The method which produces aspheric soft contact lenses is:
- a) cast moulding b) lathe cut
c) spin cast d) reverse process III
- (34) Which of the following is true of soft contact lenses?
- a) HEMA materials having greater Dk with low water content b) SiHy have greater Dk with low water and silicone content
c) SiHy have greater Dk with high water and low silicone content d) SiHy have greater DK with high silicone content and low water content
- (35) All of the following are true about soft contact lens material except:
- a) Group 4 should avoid heat disinfection, sorbic acid and potassium sorbate, lens parameters may be sensitive to changes in pH b) Group 3 includes many disposable or planned replacement lenses
c) Group 2 can be discolored by preservatives containing sorbic acid and potassium sorbate d) Group 1 contain low water and nonionic polymers
- (36) the asphericity of the contact lens is determined by-
- a) p- value b) e- value
c) d- value d) all
- (37) Which type of filter is used to check the RGP fitting?
- a) cobalt blue filter b) red free filter
c) wratten filter 12 d) none
- (38) Backbone material of RGP lens:
- a) PMMA b) HEMA
c) MMA d) Butyl Styrene
- (39) Standard base curve of soft contact lenses are-
- a) 8.7mm b) 8.6 mm
c) 8.6-9.1 mm d) 8.4 mm
- (40) Which of the following is not a symptom of Dry Eye?
- a) Watery eyes b) Reduced TBUT
c) Occasional blurred vision d) Itching eyes
- (41) When fitting rigid lenses and assessing the fluorescein pattern you should record?
- a) Central fluorescein pattern b) Mid periphery
c) Edge Clearance d) All the above
- (42) If a lens decenters which cannot be done to improvise the centration of the lens?
- a) increase BOZD, maintain same diameter b) decrease BOZR, maintain same total diameter
c) increase lens thickness d) decrease total diameter, maintain BOZR
- (43) K reading: K 1 :7.90mm@180°, K 2 :7.50 mm@90°, which can be chosen at the spherical back surface curve?
- a) 7.90mm b) 7.80 mm
c) 7.70 mm d) 7.50 mm

- (57) which of the following is not a method by which a virus produces a disease?
- a) inhibits cell metabolism and synthesis
 - b) compromises host defences
 - c) induces tumour formation
 - d) produces toxins or enzymes
- (58) Presence of increased viscosity in lens care products lead to all of these except
- a) soothing effect
 - b) reduced irritation
 - c) slippery nature
 - d) altering lens water content
- (59) One of the following is not an advantage of wet storage of the lens?
- a) wettability
 - b) controls microbial contamination
 - c) improves lens hydration
 - d) decreases eye comfort
- (60) Which is the microorganism associated with contact lens induced microbial keratitis?
- a) Pseudomonas aeruginosa
 - b) H influenza
 - c) Klebsilla sp
 - d) Neisseria