

**VINAYAKA MISSION'S RESEARCH FOUNDATION, SALEM
(Deemed to be University)**

M.OPTOMETRY DEGREE EXAMINATION – December 2021

Second Semester

ADVANCED CONTACT LENS I

Three Hours

Maximum: 100 marks

I. Choose the Best Answer :

(20 x 1 = 20)

1. Diameter of scleral lens is
a) 10-15mm b) 15-20mm c) 15-25mm d) 10-25mm
2. How can we increase the Axial edge lift ?
a) by increasing optic zone size b) by decreasing optic zone size
c) by increasing peripheral curve d) by decreasing peripheral curve
3. Horizontal visible iris diameter(HVID) is
a) 10.5 mm b) 11.00 mm c) 12.00 mm d) 11.7 mm
4. Effects of Corneal hypoxia – all except
a) Corneal dehydration b) Stromal acidosis
c) Osmotic imbalance d) Corneal edema
5. Permeability of RGP lens increased by all except
a) Increase cross linking b) Improved surface characteristic
c) Decrease cross linking d) Higher temperature
6. Method used to prevent rotation of toric contact lens
a) Lenticular eye modification b) Prism ballast
c) Blinding d) Fenestration contact lens optics
7. Who devised the first contact lens for keratoconus
a) William b) Xavier c) Adolf fick d) Eugene Kact
8. In general, ATR corneal astigmatism frequently creates problems with
a) poor lateral centration b) poor vertical centration
c) lens falling out d) difficulty with lens removal
9. Dellen formation is commonly found in
a) central cornea b) peripheral cornea
c) nasal conjunctiva d) temporal conjunctiva
10. What % of oxygen is required to prevent corneal oedema?
a. 5% b. 10% c. 15% d. 20%
11. _____type of solution is used for eye dryness and irritation
a) Saline Solution b) Rewetting solution
c) Enzymatic solution d) Cleaning solution
12. Which of the following is an contraindication of contact lens
a) Symblepheron b) Keratoplasty
c) Coloboma d) Iridocyclitis

(p.t.o)

13. Which of the following is not an enzymatic cleaners?
- a) Papain b) Pancreatin
c) Ployaminopropyl d) Subtilisin
14. Soaking solution maintains lens _____
- a) Hydrated state b) Dehydrated state
c) Synergic action d) Sensitization
15. What are the primary indications for the use of a therapeutic contact lens?
- a) Neurotrophic keratitis b) Neuroparalytic keratitis
c) Herpes simplex keratitis d) None of the above
16. How many quadrants can be steepened by ACT technology?
- a) 4 b) 3 c) 2 d) 1
17. Peri ballast technique utilizes the minus carrier design at the edge.
- a) Minus carrier b) Plus carrier
c) High minus carrier d) Aspheric lens
18. Total diameter is depend on
- a) HVID b) limbus width c) corneal sagittal height d) all the above
19. Edge lift is decreased by changing the angle of
- a) Optic zone b) transitional zone c) landing zone d) all the above
20. Second assessment of lens edge should be done after
- a) 3-4hrs of lens wear b) 1day after lens wear
c) 2days after lens wear d) 8 hrs of lens wear

II .Write an Essay on:

(4 x 10 = 40)

21. Explain functions of tear film and their properties. Explain different layers of tear film and their secretion.
22. Explain the relationship between sag, base curve and diameter and their rule of thumb with examples.
23. Types of fit in Toric Cornea with Toric Contact Lens.
24. Soft contact lens after radial keratotomy.

III .Write an Long Essay on :

(2 x 20 = 40)

25. Discuss in detail the ideal fitting for a RGP lens with specific instruction of maintenance of the lens.
26. Define keratoconus and its complications on fitting contact lens.

(S.No.M22064)