



BRAINWARE UNIVERSITY

Term End Examination 2023-2024
Programme – B.Optometry-2021
Course Name – Contact Lens-I
Course Code - BOPTOC501
(Semester V)

Full Marks : 60

Time : 2:30 Hours

The figure in the margin indicates full marks. Condidates are required to give their answers in their own.

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

- 1. Choose the correct alternative from the following:
- (i) Select the correct method that produces aspheric soft contact lenses
 - a) Cast Mould

b) Lathe Cut

c) Spin Cast

- d) Reverse Process
- (ii) Manufacturing soft contact lenses by Spin cast method shows the lenses are
 - a) thick and aspheric

- b) thin and aspheric
- c) medium thickness and aspheric
- d) spherical lenses
- (iii) Recall the correct date from the following when disposable contact lens were first introduced
 - a) 1976

b) 1977

c) 1978

- d) 1984
- (iv) Identify the correct Antimicrobial agent among the following which can act as both disinfectant and preservative
 - a) Penicillin

b) EDTA

c) Polyquad

- d) Hydrogen Peroxide
- (v) Identify the correct type of Soft Toric Lens Design that will correct the Corneal Astigmatism
 - a) Atoric

b) Front Toric

c) Bitoric

- d) Aspheric
- (vi) Predict the correct direction of the base of the prism which are incorporated in Prism -Ballast design
 - a) Base-Up

b) Base-Down

c) Base-In

- d) Base-Out
- (vii) Choose the correct option from the following

	b) In 1508, Leonardo Da Vinci was the first who b) In 1508, Orlando Battista gave the idea abo		about
	described about contact lenses c) In 1994,Leonardo Da Vinci first described about contact lenses	contact lenses d) In 1507,Orlando Battista gave the idea contact lenses	about
(viii)	Depending upon FDA classification, we classify Hy		
(ix)	a) 4 categoriesc) 2 categoriesFor soft contact lenses, we indicate the parameter	b) 1 category d) 3 categories of base curves within the range of	
	a) 3.1-5.1 mm c) 10.1-12.1 mm Choose the correct option from the following: Du usually pass out through in open eye co	b) 8.1-9.1 mm d) 4.1-6.1 mm ring open eye conditions,carbon dioxide	
(xi)	a) tear film c) lacrimal system Select the correct Front Apical radius of Cornea front	b) aqueous humor d) anterior chamber	
	a) 6.5mm	b) 6.7mm	
(xii)	 c) 7.1mm Regardless of Contact Lens Power, it can be sumn brings light into focus rather than spectacles. 	d) 7.8mm narised that CI has distance that	
(xiii)	 a) larger c) increased While checking the Vertical Lens Movement(VLM mm or less movement in the primary gaze, the na 		
(xiv)	a) optimum fitc) flat fitIf the HVID of the patient's eye ranges from 10.5-contact lens that will provide optimum fit for the		
(xv)	a) 14.00-14.10 mm c) 13.20-13.28 mm Identify from the following the contraindications	b) 14.1014.20mm d) 14.00-14.20 mm for soft contact lenses	
	a) Autoimmune dieseases c) Irregular Astigmatism	b) Use of Antihistamine	
	Grou	p-B	
	(Short Answer Ty		3 x 5=15
 3. Co 4. St 5. III 6. Ex 	ompare between 'hydrogel' and 'silicone hydrogel' ompare the Difference Between "Cylinder" and "Avate the importance of Pupil Size in Soft Contact Le sustrate the physiological conditions being addressed aluate the lid margin and blink pattern relevant to inses.	cis" in Soft Toric Contact Lenses ns Fitting. ed by toric contact lenses? the pre-fitting process of soft contact	(3) (3) (3) (3) (3)
c.	OF		
co	mmarise the basic trial lens set which is available ntact lens.	to illitiate the power selection for the tria	l (3)
	W		
	Grou		
	(Long Answer Ty	pe Questions)	5 x 6=30

7.	Which test can be carried out when fitting soft contact lenses to evaluate the lens's tightness?	(5)
8.	Estimate the physical properties of the contact lens materials.	(5)
	Write down the preventative measures that soft contact lens wearers take to lessen the	(5)
	possibility of dryness or discomfort?	
10.	Explain with demonstration the importance of TBUT test in case of contact lens practice.	(5)
	Tabulate the dimensions of the Cornea necessary for contact lens fitting.	(5)
	Analyze the significance of accommodation and Convergence with respect to the person who will be wearing contact lenses.	(5)
	OR	
	Justify the importance of over refraction in case of contact lens fitting.	(5)
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