III- B.Optom - Sem- II: SUMMER-2019 SUBJECT: CONTACT LENSES (1)

should	d be co	on-A is given on a separate sheet and has to be answered on same sheet .This ompleted within first 30 minutes of starting of examinations. This sheet with Se be collected by the supervisor.				
Seat N	eat No					
		SECTION-A				
Q.1	Fill i	in the blanks:	(10)			
	a)	Contact lenses are choice of correction in case of anisometroia.				
	b)	The source of subtilisin enzyme is				
	c)	Overnight corneal oedema is% in healthy eye.				
	d)	Dymed is disinfecting system is also known as				
	e)	Hybrid lens contains at center and at periphery.				
	f)	Burton lamp is used to check				
	g)	Use of contact lenses in aphakia reduces the magnification to%.				
	h)	Other names of ortho keratology areand				
	i)	RGP material causes heavy deposit on the lens surface.				
	j)	Long term RGP wearers complain of appearance of small eye due to				
Q.2	Enci	rcle the correct answer:	(10)			
	a)	Which of the following tear film assessment technique is considered as non-invasive- i) Phenol red thread test ii) Schirmer's test iii) NIBUT iv) Jones test I and II				
	b)	Who said to be the first person to describe the concept of a contact lens? i) Rene Descartes ii) Otto Wichterle iii) Leonardo da Vinchi iv) Carl Zeiss				

A patient has a spectacle refraction of -9.00 DS at vertex distance of 14 c) mm .If we wanted to fit this patient with contact lenses ,what back vertex power(BVP) would be required?

i) -8.00 DS iii) -9.50 DS

-8.75 DS ii)

iv) -10.00 DS

d)	Which of the follo patterns with cobalt	e following filter is used to enhance the view of fluorescein cobalt blue light?					
	i) Red free		ii)	Wratte	en #12 filter		
	iii) Diffuse		iv)		l Density Filter		
e)	K readings of <u>47.2</u> astigmatism?	e which type of corneal					
	i) With th	e rule	ii)	agains	t the rule		
	iii) Obliqu	e	iv)	irregular			
f)		(42.50D) and 7.34 mm 5, the amount of corneal					
	i) -2.75DC	CX85	ii)	-3.50 I	OCX85		
	iii) -2.75D0	CX175	iv)	-3.50D	CX175		
g)	Which of the following is a contraindication to contact lens wear?						
	*	er blepharitis		ii)	Keratoconus		
	ii) Bul	lous Keratopathy		iv)	Irregular Astigmatism		
h)	In case of complete water take for complete with 6 hours	elium how long dues it on? 24 hours					
	iii) 1 week			ii) iv)	6 week		
i)	Theoretically contact	in case of:					
	, -	astigmatism	ii)		nisometropia		
	iii) Oblique	astigmatism	iv)	Refrac	tive anisometropia		
j)		'throw away lens'?					
	,	A Battista	ii)		an A Stalei		
	iii) John de	Carle	iv)	Thoma	as Young		
Marks Obta	ined :		Signature of Invigilator				
			Signature of Examiner				

III -B.OPTOM. SEM – V: SUMMER - 2019**SUBJECT: CONTACT LENSES (I)**

Monday Day:

Time: 02.00 PM TO 05.00 PM

Date:

25/03/2019

S-2019-4011

Max. Marks: 50

N.B.:

There are THREE sections as: 1)

Section-A= Objective types questions

=20 Marks

Section-B= long questions

=20 Marks

Section-C=short questions

=30 Marks

- 2) **Section-A** is given on **SEPARATE** sheet has to be answered on the same sheet.
- 3) section-B has 3 Long questions and any TWO questions have to be answered On the **SEPARATE** answer sheet.
- 4) Section- C has Short questions and any FIVE questions have to be answered on **SEPARATE** answer sheet.
- Draw neat and labeled diagram WHEREVER necessary. 5)

SECTION-B

Answer ANY TWO of the following: **Q.3**

(20)

- Calculate tear lens ,over refraction and final lens power for the following cases-
 - <u>K 41.50 D @ 180, 43.50 D @ 90</u> i) Refractive error -5.00DS /-2.00 DC X180 BVP of the trail lens is -5.00DS CL fitted on 'ON' K and 'Average' K values.
 - K 44.75 D @ 180, 46.25 D @ 90 ii) Refractive error -5.00 DS BVP of the trail lens is -5.00DS CL fitted on 'ON' K and 'Steep' K values.
- What is disinfection? Explain the types of disinfection process for RGP lens b)
- What about the different methods used for manufacturing RGP contact c) lenses, their procedure advantages and disadvantages.

SECTION-C

Q.4 Answer ANY FIVE of the fallowing:

(30)

- Write a short note on 3& 9 O'Clock staining. a)
- b) In follow up visit if patient complaints of variable vision .what are the probable causes and how to manage them?
- Draw a labeled diagram of tri curve of lens design. How will you select c) BOZR?
- d) Write a note on ordering of RGP contact lens with example.
- Explain the characteristics in steep fit contact lens. What will happen if e) steep fit prescribed to the patient?
- Explain Front toric design, Back toric design and Bitoric Design . Which f) design is suitable for which type of patents.