B.Sc. (HONS) IN OPTOMERTY AND OPHTHALMIC TECHNIQUES

Term-End Examination December, 2010

BOS-011: CONTACT LENS

Time: 3 hours Maximum Marks: 70

Note: Attempt all questions.

1. A 20 year female has -4.0 DSFh power in both eyes. The beratometry readings are

RE: 7.50 @ 180/7.40 @ 90.

LE: 7.55 @ 180/7.50 @ 90.

The patient has no ocular or systemic problem. Write down the steps in fitting soft contact lens for this patient.

OR

What are the various materials used in contact lenses? Classify on the basis of Rigid and soft lenses. Write the advantages and disadvantages and properties of each material.

2.	List <i>any four</i> indications for prescribing the contact lenses.	4
3.	Describe the Tear Break up time. Enlist the other tests to evaluate tear film?	4
4.	Describe the measurements taken before fitting the contact lenses?	4
5.	Explain thioroscein fitting pattern in a of Gp STEEP fitting contact lens with the help of a diagram.	4
6.	Describe optic section illumination technique of slit lamp examination.	4
	OR	
	How will you conduct a follow up examination of a soft contact lens patient?	
7.	Write short note on <u>prosthetic</u> contact lens.	4
8.	Enlist <i>any four</i> complications of contact lenses and their causes	4

Calculate empirically the C.L. Power if the 4 9. spectacle prescription is -1.25 DS/-h(a) -4.25 DS/-0.75 DC \times 180 (b) (c) -8.50 DS/-h(d) $+02.50 DS/ + 0.75 DC \times 180$ 4 Classify soft contact lenses according to FDA? 10. 4 What are the advantages of disposable contact 11. lenses over conventional soft contact lenses? OR Name any four options of refractive surgery. List a few complications of refractive surgery. 2 What are the sources of oxygen supply to cornea 12. in open eye and closed conditions? 13. Write down the properties of silicone hydrogel 2 material? Calculate RCP leas power if the spectacle 2 14. prescription is -3.25 DS and lens is fitted 0.50 Diopter Steeper than K.

15.	A patient has spectacle power of	2
	-3.0 DS/ -2.0 DC \times 10. The Keratometry is 42.0	
	@ 10/44.50 @ 100°. A soft toric soft lens of	
	$8.5/-2.0/-1.25 \times 10/14.2$ is placed on the eye.	
	The lens has good fitting relationship. However	
	it rotates to left by 10°. Write the final prescription	
	of the contact lens.	
16.	Write <i>two</i> components of deproxenising enzyme tablets?	2
17.	List <i>two</i> options of presbyopic correction with contact lenses.	2
18.	Describe extended wear contact lens.	2

Define Base curve (w.r.t.contact lens) and sagittal

Write down any two conditions in which only

RGP contact lenses should be prescribed.

Define Oxygen permeability.

2

2

2

19.

20.

21.

depth.