## BACHELOR OF CLINICAL OPTOMETRY II-B. Optometry Sem-III: WINTER: 2021 SUBJECT: DISPENSING OPTICS - II

y : Monday te 7/3/2022	W-837-2021		02:00 PM-05:00 PM Iarks: 70
N.B.			
1)	There are <b>THREE</b> Sections as		
	Section- $A =$ objective type questions	20 Marks	
	Section-B = Long questions	20 Marks	
	Section-C= Short questions	30 Marks	ı
2)	Section A is given on a SEPERATE she	et and has to be a	answered on the same
	sheet. This sheet should be completed v	vith the first 30 n	ninutes of starting of
	the examination. This sheet with Sectio		_
	supervisor.	•	•

- 3) Section- B has 3 long questions and any **TWO** questions have to be answered on the separate answer sheet.
- 4) Section- C has 6 short questions and any FIVE questions have to be answered on the separate answer sheet.
- 5) Draw neat labeled diagrams **WHEREVER** necessary.

#### **SECTION-B**

### **Q.4** Answer **ANY TWO** of the following:

(20)

- 1) Write in detail about various types of bifocals. Discuss about various measurement required for fitting bifocal.
- 2) Create the ideal order form for ordering PAL. Discuss the form in detail with its importance.
- 3) Differentiate between organic and mineral photochromic lenses. Describe in detail about factors influencing photochromic performance.

#### **SECTION-C**

#### Q.5 Attempt ANY FIVE of the following:

(30)

- 1) Write a short note on manufacturing and fitting of poloroid lenses.
- 2) Taking your own example calculate the total displacement in following:
  - a) 22 mm round kryptok bifocal
  - b) D- bifocal
  - c) Executive bifocal
- 3) Write in detail about Tscherining's ellipse. Discuss the advantages and disadvantages of the lenses obtained by using Jalie's expression.
- **4)** Explain in short:
  - a) Memory metal
  - b) Epoxy resin
  - c) Titanium
- 5) Explain in detail with example:
  - a) Occupational PAL
  - b) Personalize PAL
- 6) Write a short note on types, advantages, disadvantages and indications of aspheric lenses.

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**Day**: Monday **Date** 7/3/2022

W-837-2021

Time: 02:00 PM-05:00 PM

1 1

Max. Marks: -

Q.1									
×		Fill i	n the blanks:		SECTION-A				(1
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	3) 4)		vater Brewster -treated lens			degrees.	will	show	a
	,				pattern.			İ	
	5)	Fram	nes without ten	nples are co	alled as	n longag-	<b></b> '		
	6) 7)	In cas	mum blank siz se of	e (MBS) 10	or single vision bifocal, di	n lenses= stance and near o	optical	centres a	ıre
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		on sa	mile morneonium	IIIIC.					
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