

Worshipful Company of Spectacle Makers



Level 2 Optical Support

Unit 4: The Provision of Spectacle Lenses in Optics

Summer 2018

Duration: 24 mins

Candidate Number:

Date:

Answer **ALL** Questions

Number of Supplementary Sheets used (if any), including graph paper.

For office use only

Question number	Questions			Total	
	1	2	3	Marks	%
Marks					
Moderated					

Examiner's signature

Moderator's signature

This booklet is the property of the WCSM and **must not be removed** by the candidate from the examination room.

This page
has been
left blank.

Question 1

Examiner's
use only

Q1a)	A patient has lost a screw from a pair of prescription safety spectacles. What would you advise the patient?	(2 marks)
-------------	---	------------------

Q1b)	A patient has a reading prescription, suggest why they may not be advisable for safety eye wear?	(3 marks)
-------------	--	------------------

Q1c)	What is safety eyewear? Give two examples when you would wear it.	(5 marks)
-------------	---	------------------

Examiner's
use only

Q2a)	What is surfacing in relation to spectacle lenses? When would you advise a patient to have a surfaced lens?	(4 marks)
-------------	--	------------------

Q2b)	What is the difference between a standard varifocal and one described as ' short ' design?	(2 marks)
-------------	---	------------------

Q2c)	How does a bifocal correct vision? Give 2 examples of the shapes of bifocals.	(4 marks)
-------------	---	------------------

Question 3

Examiner's
use only

Q3a)	Describe the characteristics of a photochromic lens.	(5 marks)
-------------	--	------------------

Q3b)	What best describes focal length? 1) It is the distance from a lens to its focus for a distant object 2) It is the power of the lens measured in Dioptres 3) It is the reciprocal of the progressive height 4) It is the unit of IOP	(2 marks)
-------------	--	------------------

Q3c)	Give three differences between a -7.50 lens made in plastic refractive index 1.49 and plastic refractive index 1.67 .	(3 marks)
-------------	---	------------------

End of questions for this paper

DO NOT TURN THIS PAPER OVER UNTIL ADVISED TO DO SO BY THE INVIGILATOR

Important Instructions for Candidates

Please read carefully and follow these instructions when told do so by the Examiner/Invigilator.

1. Before you start to answer any question, take a few minutes to read through the paper.
2. Please ensure your candidate number and date are in the boxes on the front cover of this booklet.
3. Please **DO NOT** write your name on this booklet. Candidates must remain anonymous for marking purposes.
4. Write your answers as clearly as you can using a black/blue pen only. Do not use a pencil. If the examiner cannot read your writing or figures you may lose marks, or even receive no marks at all. **Pencils may only be used for graphs and diagrams.**
5. You should read each question carefully, and make sure that you know what you have to do before you start to answer.
6. You must write your answers in the space provided. Additional paper may be used if necessary, but you must show your candidate number and the question number at the top of each sheet; not your name. You must also annotate the box on the front cover of this booklet to show how many extra sheets you used.
7. Please do not write in the margins.
8. Make sure your diagrams are as clear and neat as possible; you will get marks for doing so. If you need to draw a graph, use as large a scale as practicable; this will give the most accurate answer.
9. When answering mathematical questions, write **ALL YOUR CALCULATIONS IN FULL**. Even if you get the final answer wrong, you may get credit for the parts of the calculation that are correct.
10. After you have completed each answer, re-read the question to make sure you have answered it fully.
11. Try to leave yourself enough time to check the completed paper through before handing it in.
12. Do not tear out any part of this booklet. All work must be handed in.
13. Before handing your paper in, ensure your Candidate number is entered clearly on the front of this booklet and on any extra sheets you may have used.
14. Attach any sheets to this booklet and annotate how many there are in the box on the front of this booklet.

When told to do so by the Invigilator, you may turn the paper over and begin