

Worshipful Company of Spectacle Makers



Level 2 Optical Support

Unit 12: Lens Treatments and Safety Eyewear

Duration: 35 mins

Candidate Number:

Date:

Answer ALL Questions

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

For office use only

	Total			
Question number	1	2	Marks	%
Marks				
Moderated				

Examiner's signature

Moderator's signature

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Question 1

a) Write short notes on two categories of safety eyewear that would require the provision of lenses and frames that would meet the current safety regulations.

(6 marks)

Question 1

b) List **3** types of lens material suitable for the above categories.

(6 marks)

c) State **2** methods by which glass lenses can be toughened.

(8 marks)

Question 2 b

- (i) If you have 2 polarised lenses placed one on top of the other with their polarising axes parallel to each other what effect will this produce with respect to the incident light?

(3 marks)

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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.
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