

Level 6 Certificate in Contact Lens Practice

Unit 1: Ocular Anatomy, Physiology and Related Pathology

Principal Examiner:
L Dunning FBDO CL



abdo

Winter 2023

Duration: 2 hours

Candidate Number:

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Seating Location:

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Answer **Four** questions only.

Please tick below the numbers of the questions attempted:

1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
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Number of Supplementary Sheets used (if any), including graph paper.

For office use only

Question number	1	2	3	4	5	Total	
						Overall	%
Marks							
Moderated							
Borderline (57%-62%)	Please tick the box to acknowledge that this is a borderline result and confirm that the marks have been checked in terms of allocation and addition.						

Examiner's Signature	<input type="text"/>
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Moderator's Signature	<input type="text"/>
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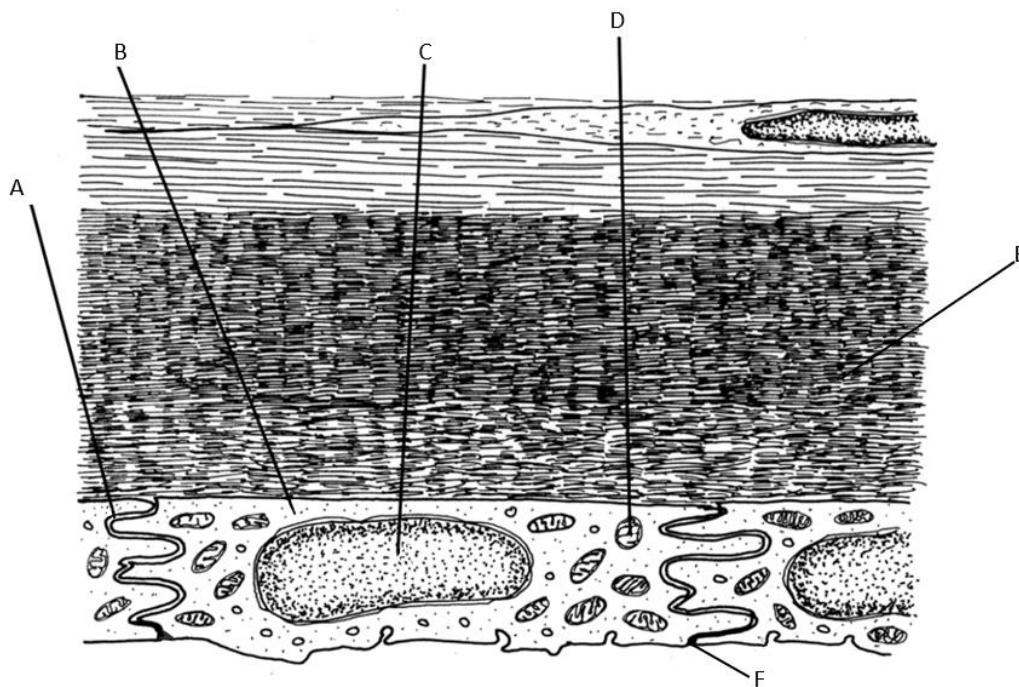
This booklet is the property of the ABDO and **must not be removed** by the candidate from the examination room.

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Question 2

- a) Name the corneal structures A-F **(18 marks)**
- b) With reference to the anatomy and histology of the corneal nerve supply, explain why the sensitivity of the cornea is high but localisation of a foreign body on the cornea is poor. **(28 marks)**
- c) **i)** Describe **four** corneal changes that may occur if the cornea becomes hypoxic as a result of contact lens wear. Include the clinical appearance any possible symptoms. **(28 marks)**
- ii)** Then consider the contact lens selection or management options to reduce the risk of hypoxia. **(10 marks)**
- d) Briefly describe the components that comprise the corneal epithelium. Include cell types, cell junctions and the approximate thickness. **(16 marks)**

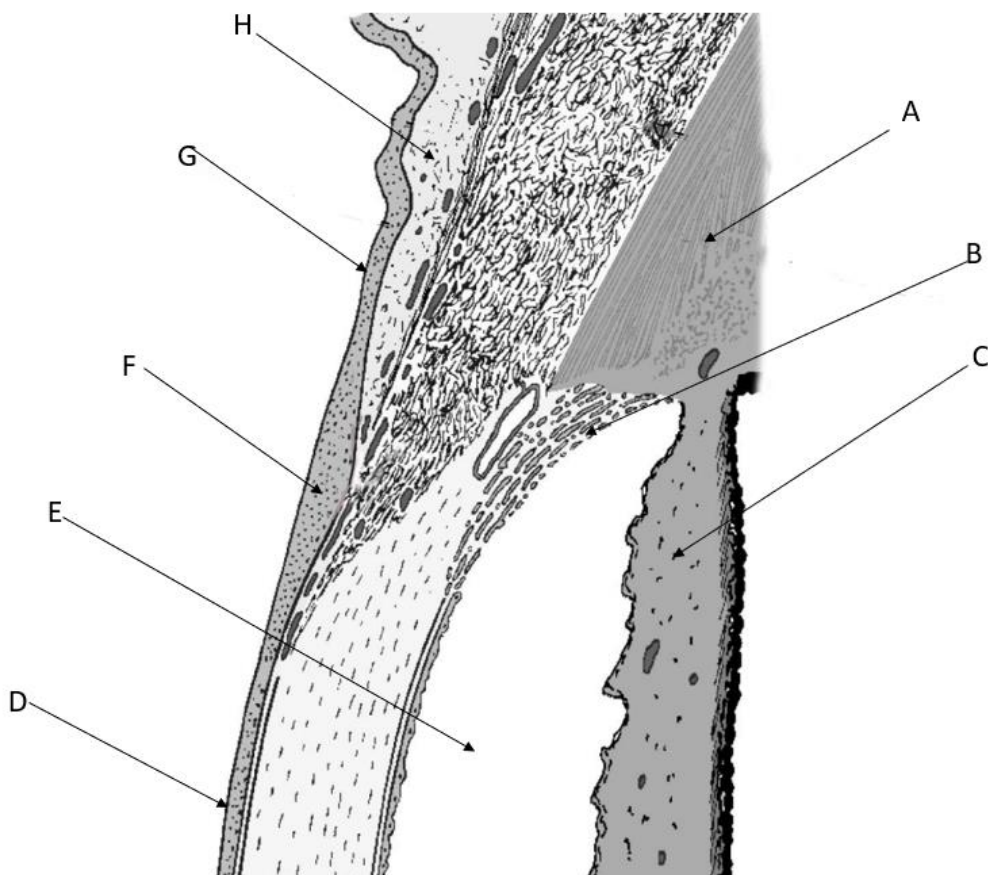
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- a) Name the corneal structures A-F **(18 marks)**



Question 4

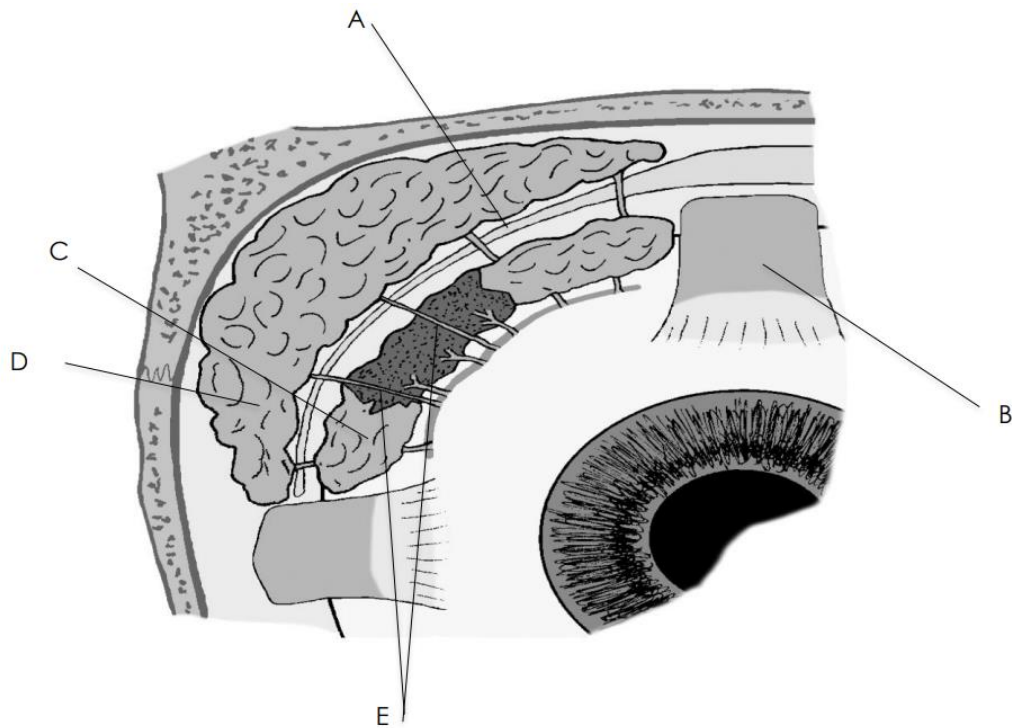
- a) Label the following structures of the corneo- scleral junction A-H **(24 marks)**
- b) Describe the production of aqueous humour. Include the circulation, drainage of the fluid and state the volume of aqueous that fills the space. **(40 marks)**
- c) **List** possible presenting symptoms of acute angle closure glaucoma. **(18 marks)**
- d) Describe 3 functions of the aqueous humour **(18 marks)**

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- a) Label the following structures of the corneo- scleral junction A-H **(24 marks)**



b) Label the following lacrimal diagram A-E

(15 marks)



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Important Instructions to Candidates

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

1. You will be given 5 minutes at the beginning of the examination to read through the questions.
2. **Please enter your candidate number and date in the boxes on the front cover of this booklet.**
3. Please **DO NOT write your name** on the booklet. Candidates must remain anonymous for marking purposes.
4. Candidates must answer questions legibly, using blue/black ink or ball-point pen. *Pencil may be used for graphs and diagrams only.*
5. Candidates please note, the examination paper has been designed for you to answer the stated number of questions within the allotted time.
6. Candidates must read each question carefully and make sure that you know what you have to do before starting your answer.
7. Candidates must write the answer to each question in the space provided. Additional paper may be used if necessary but you must show your Candidate Number and question number(s) clearly at the top of each page.
8. Please do not write in the margins.
9. Any extra pages used should be securely fastened together using a treasury tag. This includes any diagrams, additional graph paper or any continuation paper.
10. Candidates are advised to carefully cross out any work not intended to be marked by the Examiner.
11. Please do not tear out any part of this booklet. All work must be handed in.

Important Information for Candidates

1. Answer **FOUR** questions only.
2. Answer all parts for each question.
3. Where relevant, the marks awarded for each part of a question are given in brackets, e.g. **(10 marks)**.
4. This entire document consists of 24 pages. Any blank pages are indicated.

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