

Level 6 Certificate in Contact Lens Practice

Unit 1: Ocular Anatomy, Physiology and Related Pathology

Principal Examiner:
L Dunning FBDO CL



abdo

Winter 2024

Duration: 2 hours

Candidate Number:

Date:

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Seating Location:

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

Moderator's
Signature

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Question 1

Write brief notes on the following conditions, in each case describe the causes, signs, symptoms, management, and any implications for contact lens wear.

- | | | |
|----|-----------------------------|------------|
| a) | Chalazion | (25 marks) |
| b) | Ptosis | (25 marks) |
| c) | Entropion | (25 marks) |
| d) | Meibomian gland dysfunction | (25 marks) |

- a) Chalazion (25 marks)**

b) Ptosis

(25 marks)

c) Entropion

(25 marks)

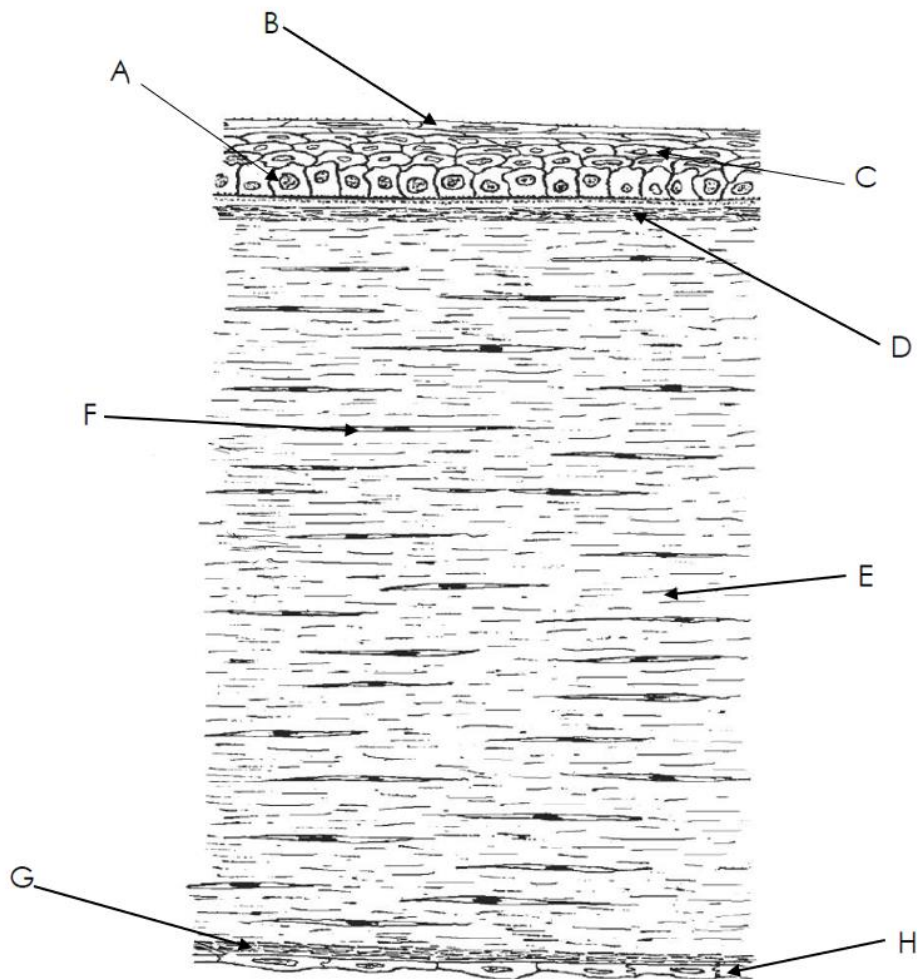
d) Meibomian gland dysfunction

(25 marks)

Question 2

- a) **Name** the structures A to H shown on the diagram of the cornea below. (24 marks)
- b) i) **Discuss** the signs, symptoms and management of bacterial keratitis (30 marks)
ii) **What** risk factors are associated with developing this infection in contact lens wearers? (8 marks)
- c) **What** is the nerve supply of the cornea? **Explain** why the sensitivity of the cornea is high but localisation of a foreign body is poor. (26 marks)
- d) **List** the functions of the corneal endothelium. (12 marks)
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- a) **Name** the structures A to H shown on the diagram of the cornea below. (24 marks)



- (8 marks)**

c) **What** is the nerve supply of the cornea? **Explain** why the sensitivity of the cornea is high but localisation of a foreign body is poor.

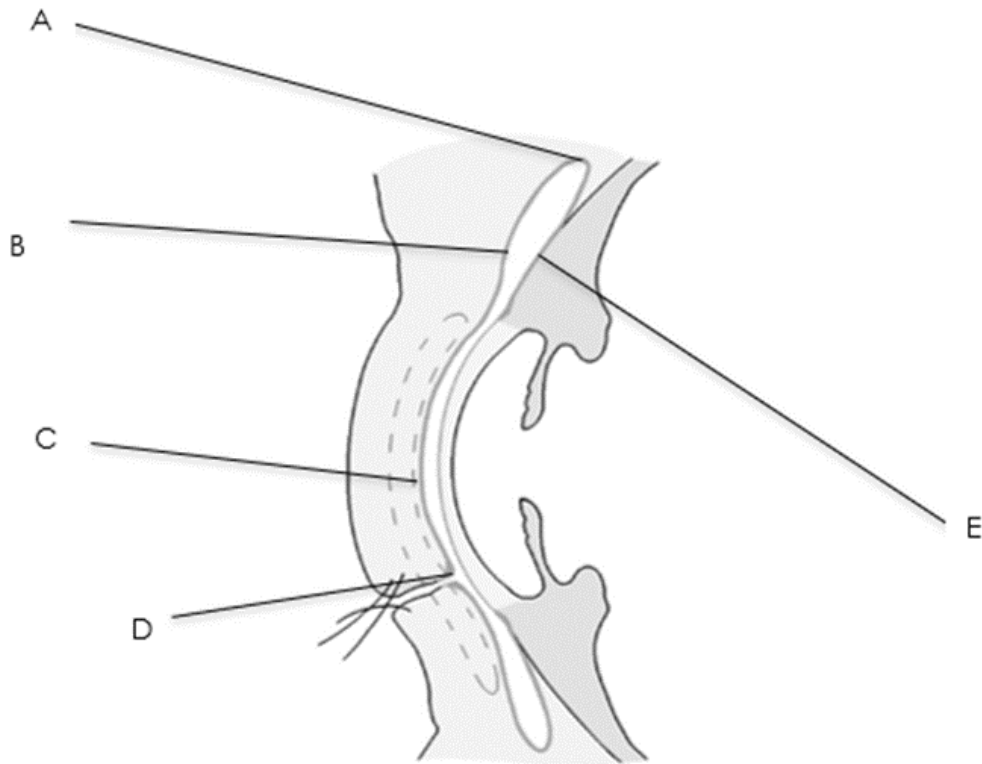
(26 marks)

(12 marks)

Question 3

- a) **Label** the regions of the conjunctiva A-E (15 marks)
- b) **Describe** the structure, location and vessels of the bulbar and the marginal conjunctiva. (36 marks)
- c) **Compare and contrast** papillae and follicles, include possible conditions that may cause this pathology to occur on the conjunctiva. (33 marks)
- d) **What** initial management options and advice would you give a CL wearer with allergic conjunctivitis. (16 marks)

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- a) **Label** the regions of the conjunctiva A-E (15 marks)



b) **Describe** the structure, location and vessels of the bulbar and the marginal conjunctiva.

(36 marks)

- (33 marks)**

Question 4

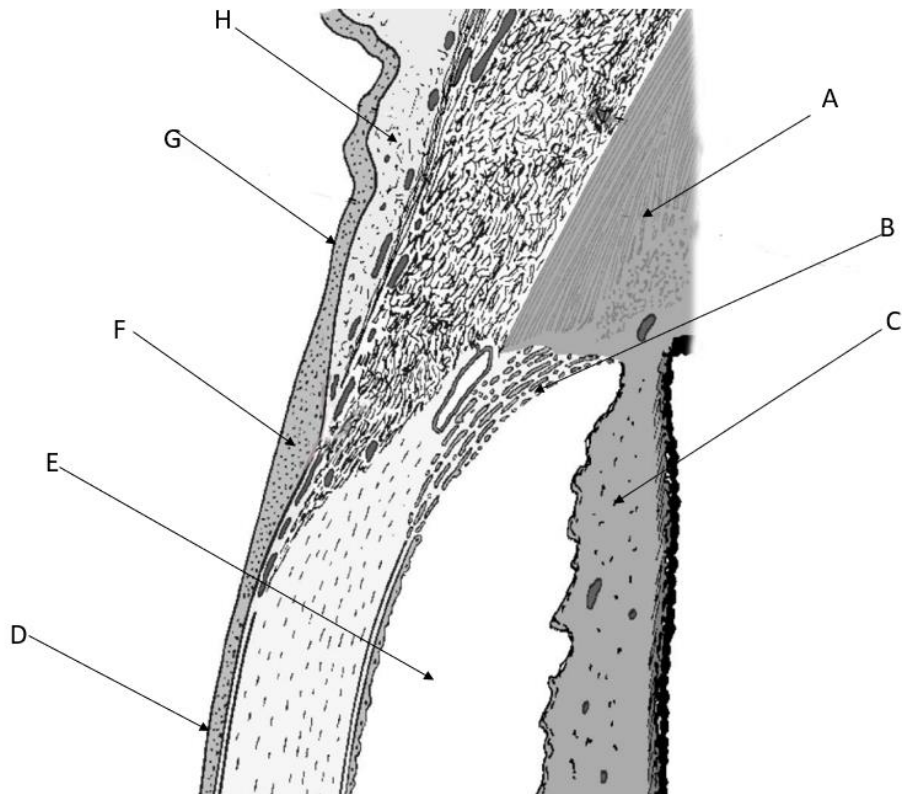
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|----|--|-------------------|
| a) | Describe the structure of the macula. Explain how its specialised structure is able to produce maximum visual acuity. | (36 marks) |
| b) | List 5 risk factors for retinal detachment. | (20 marks) |
| c) | List possible presenting symptoms of acute angle closure glaucoma. | (20 marks) |
| d) | Label the structures of corneo-scleral junction A-H on the diagram below. | (24 marks) |

- a) **Describe** the structure of the macula. Explain how its specialised structure is able to produce maximum visual acuity. **(36 marks)**

(20 marks)

- d) **Label** the structures of corneo-scleral junction A-H on the diagram below.

(24 marks)



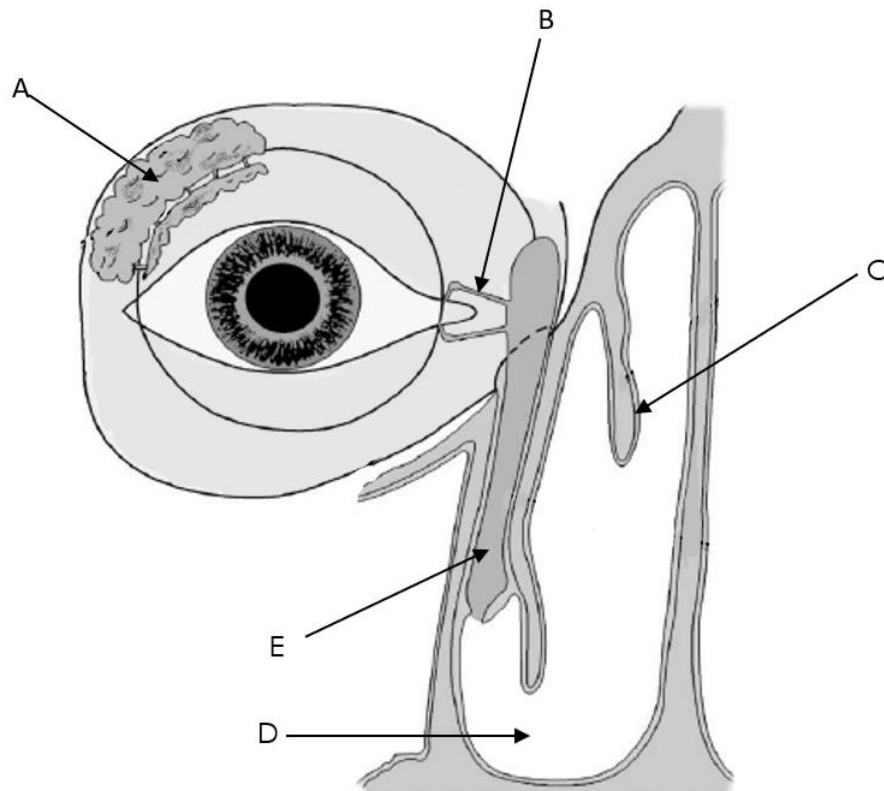
Question 5

- a) **Describe** five functions performed by the pre-corneal tear film. Name the layer(s) responsible for each particular function you have listed. **(40 marks)**
- b) **Label** the following diagram A-E. **(15 marks)**
- c) **Describe** the causes, signs and symptoms of Canaliculitis. **(30 marks)**
- d) **Explain** in short how the following five factors increase the incidence of dry eye: Age, Medications, Environment, Systemic conditions and contact lens wear. **(15 marks)**

- a) **Describe** five functions performed by the pre-corneal tear film. Name the layer(s) responsible for each particular function you have listed. **(40 marks)**

b) **Label** the following diagram A-E.

(15 marks)



c) **Describe** the causes, signs and symptoms of Canaliculitis.

(30 marks)

d) **Explain** in short how the following five factors increase the incidence of dry eye: Age, Medications, Environment, Systemic conditions and contact lens wear.

(15 marks)

End of questions for this paper

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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.