

Level 6 Certificate in Contact Lens Practice



Unit 1 – Ocular Anatomy, Physiology and Related Pathology

Principal Examiner:
Jennifer McMahon BOptom (Hons) MCOptom

Winter 2022
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.						<input type="checkbox"/>	

Examiner's Signature	
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Moderator's Signature	
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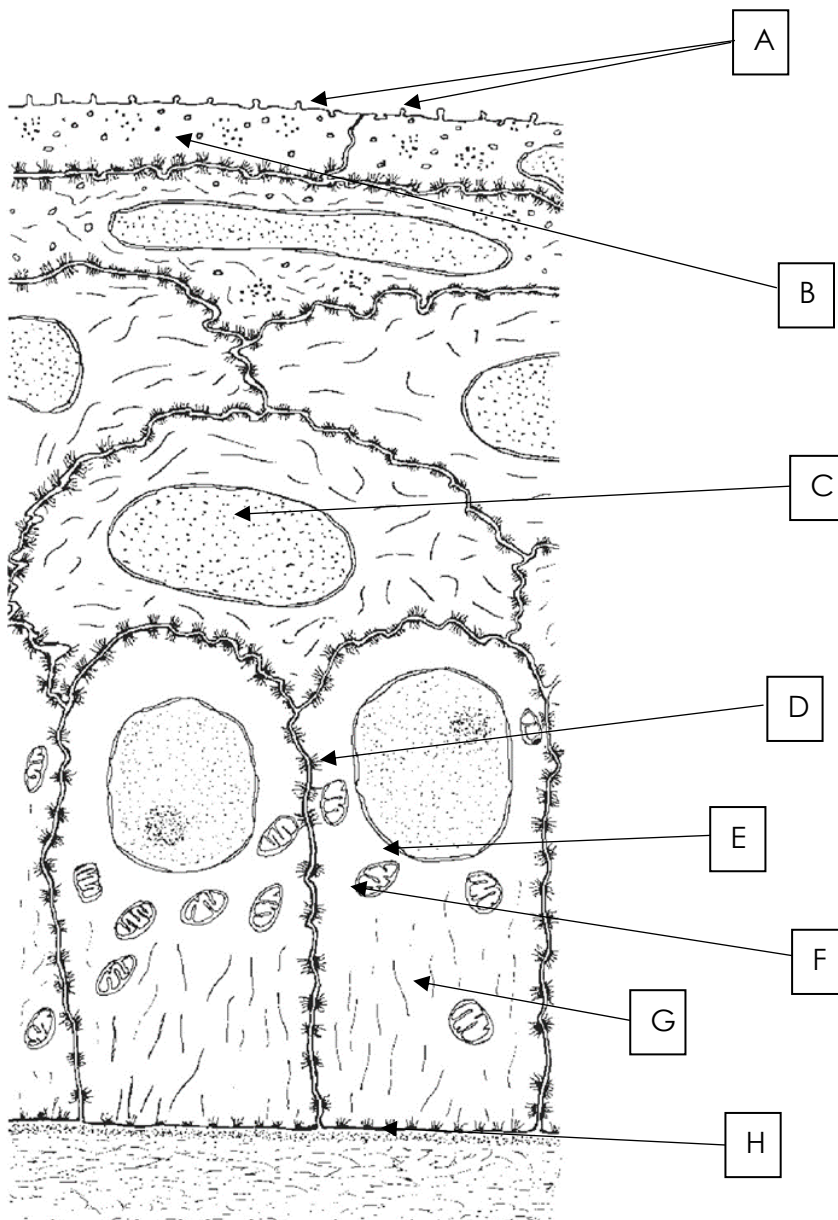
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Question 2

- a) **Name** the structures on the diagram of the corneal epithelium shown below. **(32 marks)**
- b) **Describe** the healing process of the corneal epithelium. **(30 marks)**
- c) **Compare and contrast** microbial keratitis and contact lens peripheral ulcer including signs, symptoms and immediate management. **(38 marks)**

Q2a) Name the structures on the diagram of the corneal epithelium shown below. **(32 marks)**



A	
B	
C	
D	
E	
F	
G	
H	

Q2b) Describe the healing process of the corneal epithelium. **(30 marks)**

Question 3

- a) **Describe** the structure of the bulbar and palpebral conjunctival regions. **(32 marks)**
- b) **Compare and contrast** papillae and follicles. **(32 marks)**
- c) **Complete** the table below comparing bacterial, viral and allergic conjunctivitis. **(36 marks)**

Q3a) Describe the structure of the bulbar and palpebral conjunctival regions. **(32 marks)**

Q3c) Complete the table below comparing bacterial, viral and allergic conjunctivitis.

(36 marks)

	Bacterial Conjunctivitis	Viral Conjunctivitis	Allergic Conjunctivitis
Symptoms			
Clinical signs			
Initial management options and advice to px			

Q4b) List the functions of aqueous humour. **(16 marks)**

Q4c) How would you differentiate a presentation of acute angle closure glaucoma from other possible causes of an acute onset red painful eye? **(32 marks)**

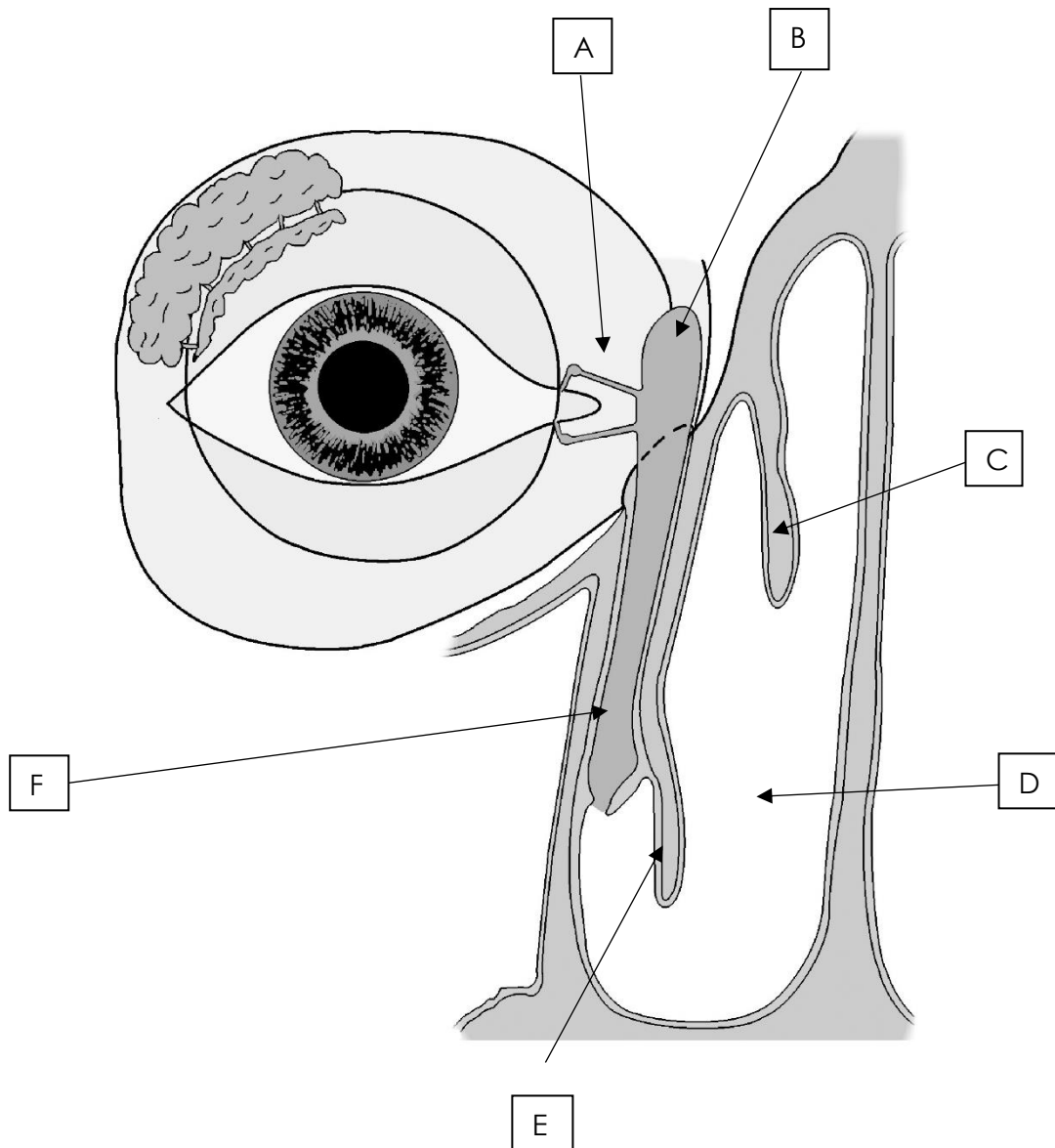
Q4d) What advice would you give to a patient following dilation with an anti muscarinic drug such as tropicamide or cyclopentolate?

(20 marks)

Question 5

- a) **Name** the labelled parts of the lacrimal drainage apparatus. **(24 marks)**
- b) **Where and how** are the components of tears formed? **(32 marks)**
- c) **Describe** the function of each of the 3 layers of the tear film. **(24 marks)**
- d) **Name 8** risk factors for dry eye. **(20 marks)**

Q5a) Name the labelled parts of the lacrimal drainage apparatus. **(24 marks)**



Q5c) Describe the function of each of the 3 layers of the tear film. **(24 marks)**

Q5d) Name 8 risk factors for dry eye. **(20 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. For all calculation questions, please work to at least 4 decimal places.
12. 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. Separate graph paper has been provided. *Please read point 9 above.*
4. Where relevant, the marks awarded for each part of a question are given in brackets, e.g. **(10 marks)**.
5.   These symbols indicate that a diagram/calculation is required or a diagram needs annotating.
6. 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.