

AQA, OCR, Edexcel

GCSE Science

GCSE Biology

The Eye Answers

Name:

M M E

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Total Marks: /21

Q1: Where are all the light sensitive cells located?

A = Retina

(1 mark)

Q2: Explain the role of the pupil.

A = hole through which light enters the eye

(1 mark)

Q3: Explain how the eye changes depending on light levels.

A = Accept any 3 from bright light and any 3 from dim light

- Bright light
 - Circular muscles contract
 - Radial muscles relax
 - Pupil constricts/gets smaller
 - Limits amount of light
- Dim light
 - Circular muscles relax
 - Radial muscles contract
 - Pupil dilates/gets bigger
 - Let's in max amount of light

(6 marks)

Q4: What holds the lens in place?

A = 1 mark for each of following points:

- Suspensory ligaments
- Ciliary muscles

(2 marks)

Q5: What part of the eye sends impulses to the brain?

A = Optic nerve

(1 mark)

Q6: Describe how light entering the eye is transferred into images by the brain.

A = 1 mark for each of the following:

- Focuses by refraction
- Refraction by the cornea
- Image formed upside down
- Brain interprets correct way round

(4 marks)

Q7: What maintains the eye's shape?

A = Jelly in the eye

(1 mark)

Q8: What prevents foreign objects entering the eye?

A = Accept any 2 of the following:

- Eyelashes
- Eye lids
- Involuntary response

(2 marks)

Q9: Why is the sclera tough?

A = 1 mark for each of the following:

- Keeps eye ball strong
- Reduces damage

(2 marks)

Q10: What is myopia?

A = Can see close objects in clear focus but distant objects blurred

(1 mark)