

GCSE Biology B (Twenty First Century Science)

J257/01 Breadth in Biology (Foundation)

Question Set 1

Multiple Choice Questions

(a) Each part of the eye is adapted to its specific function.

The table describes the functions of different parts of the eye.

Complete the table by writing the **part of the eye** that matches each **description**. Choose from the words below:

ciliary muscle cornea iris lens

Part of the eye	Description	
Ins	A ring of tissue that changes size to alter the diameter of the pupil, to control the amount of light entering the eye.	
Cornea	A thin layer of transparent tissue in front of the pupil which bends light as it enters the eye.	
Les	A thick layer of transparent tissue behind the pupil which bends light so it focusses on the retina.	
alias Muscle	Changes the thickness of the lens to focus light from far and near objects.	

(b) Amir is investigating what happens to pupil size when a person moves from an area of bright light to an area of darkness.

He measures the size of his friend's pupil in bright light.

His results are shown in the table below.

Experiment number	Pupil size (mm)
1	4.0
2	3.8
3	6.0

(i) Calculate the mean pupil size

(ii) Amir reads an article that suggests the average pupil size in bright light should be in the range of 2 - 4 mm.

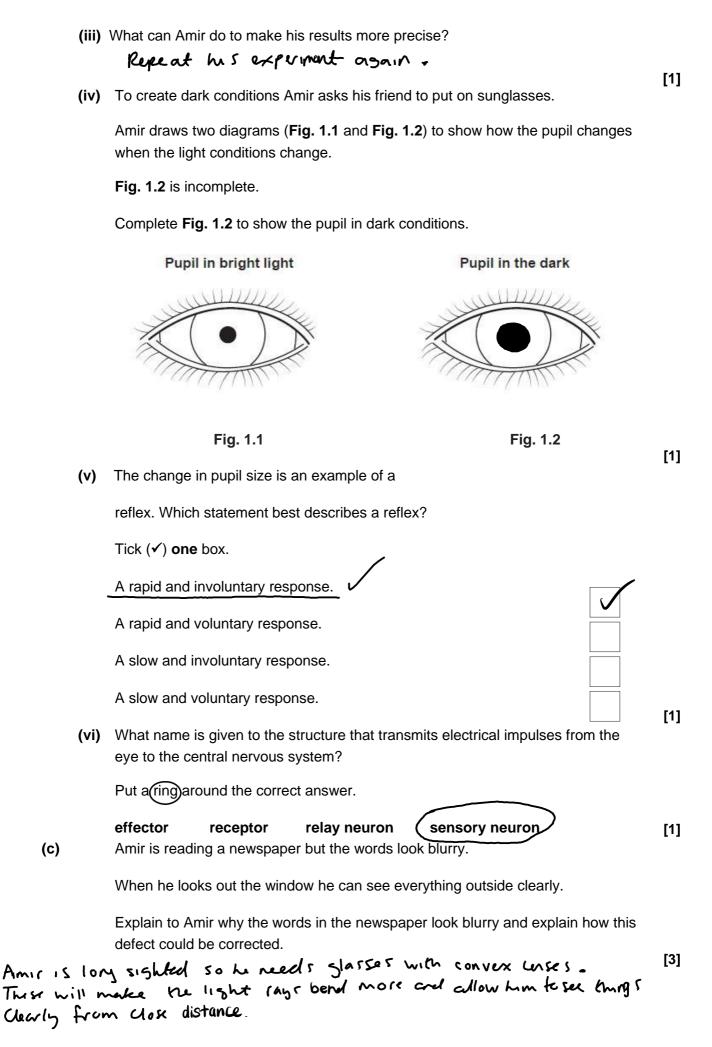
Amir thinks one of his results is an anomalous result.

Which result is most likely to be the anomalous result?

Give a reason for your choice.

6.0 for experiment 3, because it is V greater than the other two results.

[3]



Total Marks for Question Set 1: 14



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