

GCSE Biology A (Gateway)

J247/01 B1-B3 and B7 Foundation (Foundation Tier)

Question Set 17

A girl walks from a sunny beach into a dark café.

Diagram **A** shows the girl's left eye on the beach.



(a)

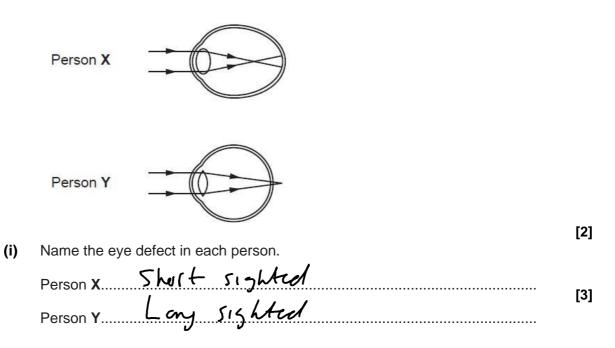
1

Diagram **B** shows the girl's left eye after she enters the café. Explain how you can tell this and how this change happens.

In digram B the pupil has dilated because the ^[3] radial muscles have contracted to allow more light into the eye.

(b) Look at the diagrams.

They show how light is focused in people with different eye defects.



(ii) Identify the type of corrective lens needed by person **X** and **Y** and explain how the lenses work.

Person X needs concave [divergent lens so that the light rays diverge betore entering the eye. Person Y needs convex [convergent lens so that the right converges seture entring the eye.

Total Marks for Question Set 17:8



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