

1. (a) Skin is the sensory organ that is responsible for the sense of touch.
Match the following receptors to their correct function.

[2 marks]

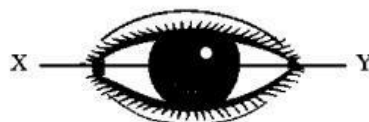
Receptor	Function
Pain receptor	☐ Detects cold stimulation. ☐ Detects touch stimulation on skin. ☐ Detects any pain on skin.
Touch receptor	

- (b) Circle two correct statements about the retina.

[2 marks]

Opaque layer that maintains and protects the shape of the eyeball.	The coloured part of the eye that controls the size of the pupil.
Contains two types of photoreceptors known as cones cells and rod cells.	The layer that is able to detect light and produce nerve impulses.

2. (a) The diagram below shows the structure of a human eye.



Write TRUE for true statement and FALSE for false statement.

Statement	TRUE or FALSE
(i) X is the part that controls the quantity of light that enters the eyes.	
(ii) Y holds the eye lens.	

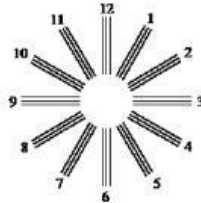
[2 marks]

2. (b) Underline the correct answer.

- (i) Long-sightedness can be corrected by using convex lens concave lens.
- (ii) Distant objects appear blurry because the image is focused in front of behind the retina.

[2 marks]

3.a A doctor conducted an eye examination on a patient and asked the patient to look at a picture as in the diagram below.

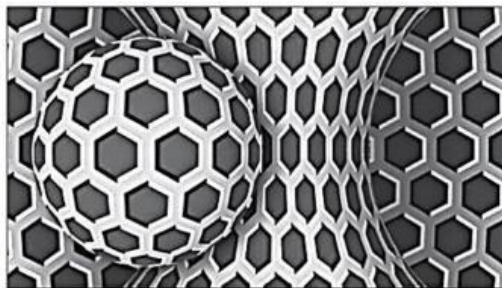


The patient could not see all the lines clearly. Describe the patient's eye defect.



[4 marks]

3b.) While visiting a 3D museum, a child suddenly felt dizzy when he saw a painting as shown in the diagram below. He thought his eyes were damaged when he saw the painting.



Explain what was experienced by that child.

