Practice Question Set For GCSE
Subject : Biology
Paper-1 Topic: B1 Cell Biology

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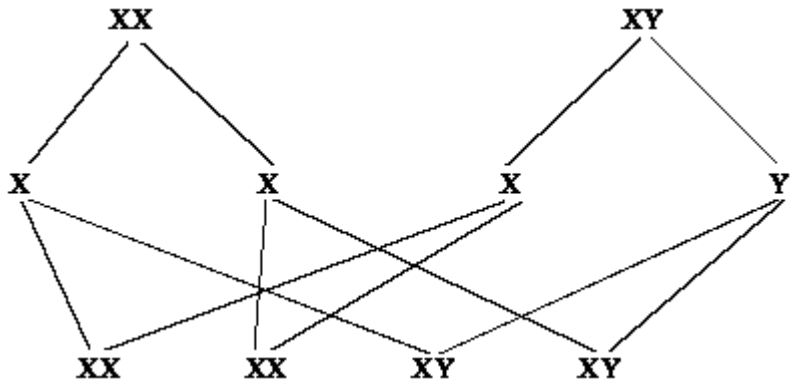
Name of the Student:_____
Max. Marks : 15 Marks **Time : 15 Minutes**

Q1.

The genetic diagram shows how the chromosomes divide and combine in human reproduction.



(a) Draw circles around the symbols for the **two** male gametes.

(2)

(b) State the chance of a child being a girl.

_____

(1)

(c) (i) How many pairs of chromosomes are there in a human body cell?

_____

(1)

(ii) How many chromosomes are there in a human egg cell?

_____

(1)

(d) Chromosomes contain genes. From what substance are genes made?

_____

(1)

(e) In the process of mitosis, how do the number of chromosomes in the daughter cells compare to that in the original cell?

_____

(1)
(Total 7 marks)

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Q2.

Oxygen from our lungs is carried, by our blood, to cells in our body where aerobic respiration takes place.

(i) Complete the **two** spaces to balance the chemical reaction for aerobic respiration.

$$C_6H_{12}O_6 + 6O_2 \rightarrow ____ CO_2 + ____ H_2O$$

(1)

(ii) Name the substance with the formula $C_6H_{12}O_6$.

_____

(1)

(iii) Name the structures in the cytoplasm of our cells where aerobic respiration takes place.

_____

(1)

(Total 3 marks)

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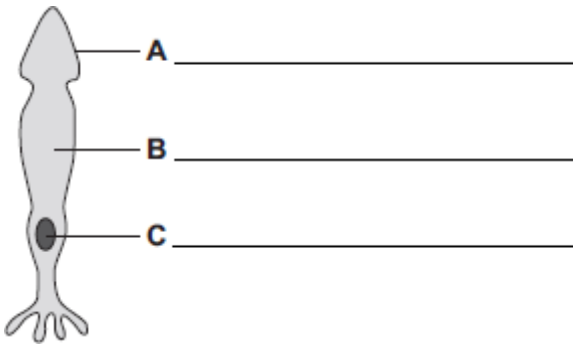
Q3.

(a) The diagram shows a light receptor cell.



Label structures **A**, **B** and **C** on the diagram.

(3)

(b) It is important that the nervous system can detect stimuli.

Give **two** reasons why.

_____

_____

_____

_____

(2)

(Total 5 marks)

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