**1.** What are the chromosomes of fungi made of?

A. DNA only

B. DNA and protein only

C. DNA and RNA only

D. DNA, RNA and protein

(Total 1 mark)

**2.** What is a difference between autosomes and sex chromosomes?

A. Autosomes are not found in gametes but sex chromosomes are.

B. Sex chromosomes are found in animal cells and autosomes are found in plant cells.

C. Autosomes are diploid and sex chromosomes are haploid.

D. Sex chromosomes determine gender and autosomes do not.

(Total 1 mark)

**3.** What can be concluded on the basis of the following karyotype?



A. Female with a normal set of chromosomes

B. Male with Down syndrome

C. Female with Down syndrome

D. Male with a normal set of chromosomes

(Total 1 mark)

**5.** Define the terms *gene* and *allele* and explain how they differ.

(Total 4 marks)

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(ii) Outline the consequences of a base substitution mutation.

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