



CHAPTER 3: HEREDITY AND VARIATION

Refer Figure 3.20 in the NEXUS Science SPM.

- 1 (a) State **one** feature in Figure 3.20 which shows that the two foetuses are identical twins.

_____ [1 mark]

- (b) The two foetuses are kept in a fluid in a sac. What do we call this fluid?

_____ [1 mark]

- (c) State **two** functions of this fluid to foetuses.

1. _____

2. _____

[2 marks]

- (d) State the possible sex for identical twins.

_____ [1 mark]

- 2 A Y-bearing sperm fertilizes an egg cell. The zygote has...

A 22 + X chromosomes.

B 22 + Y chromosomes.

C 44 + XY chromosomes.

D 44 + XX chromosomes.