## **Defining a Species**

Subject Outline terms and phrases

species, mode of reproduction, interbreed, fertile, morphological similarity, biochemical similarity, gene pool, zygote, pre-zygotic, temporal isolation, behavioural isolation, mechanical isolation, gamete isolation, post-zygotic, hybrid, hybrid inviability, hybrid sterility

1.	Define the following terms.
	(a) community
	(b) population
	(c) gene pool
2.	A species can be defined using methods based on structural features, biochemical similarity, ability to reproduce, or gene pool.
	Explain how each of these methods is used to define a species.
	structural features (morphological):
	biochemical similarity:
	ability to reproduce:
	gene pool:

(1)
(2)
(3)
(4)
(5)
(6)
Explain how each of the mechanisms listed in question 3 helps to maintain reproductive isolation.
(1)
(2)
(3)
(4)
(5)
(6)
Explain why horses and donkeys are considered to be different species even though they are able to produce offspring (the mule).
horse donkey mule