AQA – Genetics, populations, evolutions and ecosystems – A2 Biology P3

1.	June/2020/Pap	per_3/No.3
	0 3	In Europe, viruses have infected a large number of frogs of different species. The viruses are closely related and all belong to the Ranavirus group.
		Previously, the viruses infected only one species of frog.
	0 3.1	Suggest and explain how the viruses became able to infect other species of frog. [2 marks
	0 3.2	Name two techniques the scientists may have used when analysing viral DNA to determine that the viruses were closely related.
		[1 mark
		1
	0 3 . 3	Determining the genome of the viruses could allow scientists to develop a vaccine.
		Explain how. [2 marks

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0 3 . 4	Describe how the B lymphocytes of a frog would respond to vaccination aga Ranavirus.	inst
	You can assume that the B lymphocytes of a frog respond in the same way B lymphocytes of a human.	as
	Do not include details of the cellular response in your answer.	[3 marks]