4.	(a) Give the definition of a key.					[4]
	(b) Consider the relation schema PERSON(age, first name, surname, postcode) relation state given below. Identify potential keys of PERSON.					stcode) and the [6]
		age	first name	surname	postcode	
		40	Barbara	Taylor	CV4 7AL	
		40	Bernard	Jones	CV3 8AK	
		41	Brenda	Taylor	CV4 7AM	
		42	Boris	Smith	CV5 2XY	
		43	Barbara	Taylor	CV4 7XX	
		44	Boris	Smith	CV1 5GH	
	(c) Which of the follow cannot hold, specify	- 1		•		f a dependency
	i. $age \rightarrow first \ name$ ii. $first \ name \rightarrow surname$ iii. $surname \rightarrow first \ name$					[3]
						[3]
						[3]
	(d) Is it true that $X \to Y$ and $Y \to Z$ imply $X \to Z$? Justify your answer.					er. [6]
	Total mark for this que	stion: 2	25			