${\bf 2002~Paper~5~Question~8}$

Databases

(a)	Describe the relational model of data.	[6 marks]
(b)	Explain the following concepts in relational databases:	
	(i) entity integrity constraint;	[1 mark]
	(ii) foreign key and how it can specify a referential integrity between two relations;	y constraint [4 marks]
	(iii) semantic integrity constraint.	[1 mark]
(c)	(i) What is a functional dependency?	[1 mark]
	(ii) Define Boyce-Codd Normal Form (BCNF).	[3 marks]
	(iii) Define Third Normal Form (3NF).	[3 marks]
	(iv) What is the relationship between BCNF and 3NF?	[1 mark]