**The Exam Answers**

*Database Systems  
2000  
  
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1:
(0 marks)0  
1:
(0 marks)2  
1a: In the context of the relational data model give a brief definition of the following concepts:
i) Candidate key
· A superkey is an attribute, or set of attributes that uniquely identifies a relation. (2 marks)
· Candidate key is superkey such that no proper subset is a superkey within the relation. (2 marks)
ii) Primary key
· Primary key: The candidate key that is selected to identify tuples uniquely within the relation. (2 marks)
· Must have properties of uniqueness and irreducibility (2 marks)
iii) Foreign key
· Foreign key: An attribute or set of attributes within one relation that matches the candidate key of some (possibly the same) relation. (4 marks)
iv) Domain
· Domain: a set of allowable values for one or more attributes (2 marks) + (2 marks) for any examples or further elaboration
(16 marks)  
Total Marks: 16  
Average difficulty of paper: 5