

Section II

40 marks

Attempt Questions 21–24

Allow about 1 hour and 10 minutes for this section

Answer each question in a SEPARATE writing booklet. Extra writing booklets are available.

If you include diagrams in your answer, ensure that they are clearly labelled.

Marks

Question 21 (10 marks) Use a SEPARATE writing booklet.

Mr Ferrano keeps a database of the computers on his small computer network.

<i>Computer number</i>	<i>Computer RAM</i>	<i>Computer hard disk</i>	<i>Location</i>	<i>Phone extension</i>	<i>Room number</i>
001	64	6	Reception	3227	9023
002	64	10	Reception	3227	9023
003	128	8	Manager's office	1859	9115
004	96	8	Manager's office	1859	9115
005	256	40	Store Room 3	2016	9153

- (a) Computer 005 is being used as a file server on this network. Describe the role of a file server on a network. **3**
- (b) Identify data redundancy in Mr Ferrano's database and outline the problems it may cause as the database increases in size. **3**
- (c) Normalise this database into two tables, showing all the data and clearly identifying the primary and foreign keys. **4**