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| **DESIGN [24 MARKS]** | | | | | |
| **TOPIC** | **BREAKDOWN** | **POSSIBLE**  **MARK** | **DRAFT 1** | **FINAL DRAFT** | **FINAL**  **MARK** |
| **Data dictionary for three tables** | **Produce a table showing fieldname and data type for at least three tables** | **3** |  |  |  |
| **State the format of the data in each table** | **1** |  |  |  |
| **Normalisation**  **(Diagram or tables showing normalised tables)** | **Show normalised form of tables** | **1** |  |  |  |
| **Identify primary key and foreign keys** | **1** |  |  |  |
| **Validation techniques** | **Use a validation technique (eg length, range, input mask, presence check)** | **1** |  |  |  |
| **Use a different validation technique** | **1** |  |  |  |
| **Security/**  **password protection** | **Show the techniques used - a flowchart or pseudo code or list** | **1** |  |  |  |
| **Design of interface** | **Design of user-friendly, menu driven, front end interface (hand drawn or DTP design)** **Note: this is pre-implementation so no screenshots of forms can be counted as design** | **1** |  |  |  |
| **On-screen data entry form and subform**  **These designs should be hand drawn or DTP design** | **Design of at least two forms**  **Note: this is pre-implementation so no screenshots of forms can be counted as design** | **1** |  |  |  |
| **Design of a form with a subform** | **1** |  |  |  |
| **There is an extra mark for the quality of your forms:**   * **The names of all fields and sample data should be shown** * **Any special features on the form** * **How it matches house style** | **1** |  |  |  |

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| **TOPIC** | **BREAKDOWN** | **POSSIBLE**  **MARK** | | **DRAFT 1** | **FINAL DRAFT** | **FINAL**  **MARK** |
| **Design of six types of query**  **There must be six separate queries for six distinctive reasons**  **You cannot double up by saying a single query using a parameter counts as two marks** | **Create two single table queries - each must have realistic reasons for each query, not just describing what the query does and not just to display certain fields**  **The fieldname logical operator and search criteria must be clearly shown in the design** | **2** | |  |  |  |
| **Create a multiple table query using relational links**  **Important: if you use these to create the calculated field, you must then produce a separate calculation in the report or form** | **1** | |  |  |  |
| **Create a multiple table query using relational links with search criteria**  **A realistic reason for the search must be stated in the design**  **The fieldnames, logical operator and criteria must be clearly shown in the design** | **1** | |  |  |  |
| **Create a parameter query**  **You must design the statements they will ask as well as give the reason for the search and the criteria needed for it** | **1** | |  |  |  |
| **Create an Append or Delete or Update query**  **You must identify what the client wants to search and why they want the data** | **1** | |  |  |  |
| **Design of report** | **Design of report**  **There must be a realistic reason why the organisation wants these reports. In addition, you must:**   * **clearly display fields and contain reasonable detail** * **detail the data and the tables or queries needed** * **allow for suitable original headers and footers** * **have sorted and grouped data** | **1** | |  |  |  |
| **TOPIC** | **BREAKDOWN** | | **POSSIBLE**  **MARK** | **DRAFT 1** | **FINAL DRAFT** | **FINAL**  **MARK** |
| **Design of calculation in report** | Design of a calculation, totals or statistical field | | **1** |  |  |  |
| **Individual programming code** | **Create at least two simple Visual Basic code procedures**  **Code, pseudo code or flowcharts are acceptable methods of design**  **Examples could be:**   * **code for own validation procedures** * **toggle buttons to hide data** * **username and password routine code** * **own calculations routines written in Visual Basic and different from others in this section**   **These procedures must not be macros**  **They must not be too simple, eg using =Now() in a text box** | | **2** |  |  |  |
| **Calculation in a form or query** | **Design at least one calculation in a query or a form** | | **1** |  |  |  |