

Annual Examinations for Secondary Schools 2022

YEAR 11	ICT	TIME: 45 min
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Name: _____ Class: _____

- This paper has 2 sections: Section A and Section B.
- Answer ALL questions.

For office use only.

Section A	Section B	Total	Final (100)
20	30	50	Total * 2

SECTION A**[20 marks]**

- Answer all questions by choosing only one correct answer.
- Each question carries 1 mark.
- Write the letter of the correct answer in the respective Answer box.

	Choose the best answer.	Answer
1.	What is a database? A. An application used to print 3D models. B. An application to process text into well formatted documents. C. A structured collection of data. D. A program for creating graphs based on acquired data.	
2.	How is a database organised? A. A database contains formatted queries and reports. B. A database contains fields stored in queries. C. A database contains fields and records stored in tables. D. A database contains sorting criteria stored in tables.	
3.	Which of the following is not an example of database application? A. Storing and accessing bank account records. B. Storing and accessing contacts in a smart phone. C. Storing a soft copy of a document on a pen-drive. D. Storing and accessing favourite song titles.	
4.	What is the most important design feature when designing a database? A. A table should be related to only one other table. B. A table should contain data about one subject type. C. A query should only fetch data from a single report. D. A report should contain records based on a single data type.	

	Choose the best answer.	Answer
5.	<p>What is the difference between data and information?</p> <p>A. Data is stored as numbers while information is stored as text.</p> <p>B. Data is raw facts while information is data processed in a meaningful way.</p> <p>C. Data is generated by computers while information is created by humans.</p> <p>D. Data is presented in alphanumeric characters while information is presented in numeric digits.</p>	
6.	<p>Which of the following is important when creating fields in a database?</p> <p>A. A table should contain at least 3 fields.</p> <p>B. Each table should contain a primary key field.</p> <p>C. A field can be of type numeric and of type text at the same time.</p> <p>D. All the fields in a table should be of the same data type.</p>	
7.	<p>Which of the following is the most appropriate data type for a field called ClientSurname?</p> <p>A. AutoNumber</p> <p>B. Number</p> <p>C. Short Text</p> <p>D. Memo</p>	
8.	<p>What property is used to set a field automatically to a specific value when creating new records?</p> <p>A. Default value</p> <p>B. Yes/No</p> <p>C. Format</p> <p>D. Field size</p>	

	Choose the best answer.	Answer
9.	<p>What can identify a record in a unique way?</p> <p>A. A default value</p> <p>B. A filter</p> <p>C. A validation rule</p> <p>D. A primary key</p>	
10.	<p>Which one is used to quickly locate data without having to search every row in a table every time a table is accessed?</p> <p>A. A report</p> <p>B. A primary key</p> <p>C. A One-to-Many relationship</p> <p>D. An index</p>	
11.	<p>What could happen in a table containing records if the data type of a field is modified?</p> <p>A. Data could be lost.</p> <p>B. Linked fields could be removed.</p> <p>C. Records could be hidden.</p> <p>D. Related tables could be locked.</p>	
12.	<p>What is created by linking a field in a table with a field in another table?</p> <p>A. A report</p> <p>B. An index</p> <p>C. A relationship</p> <p>D. A form</p>	

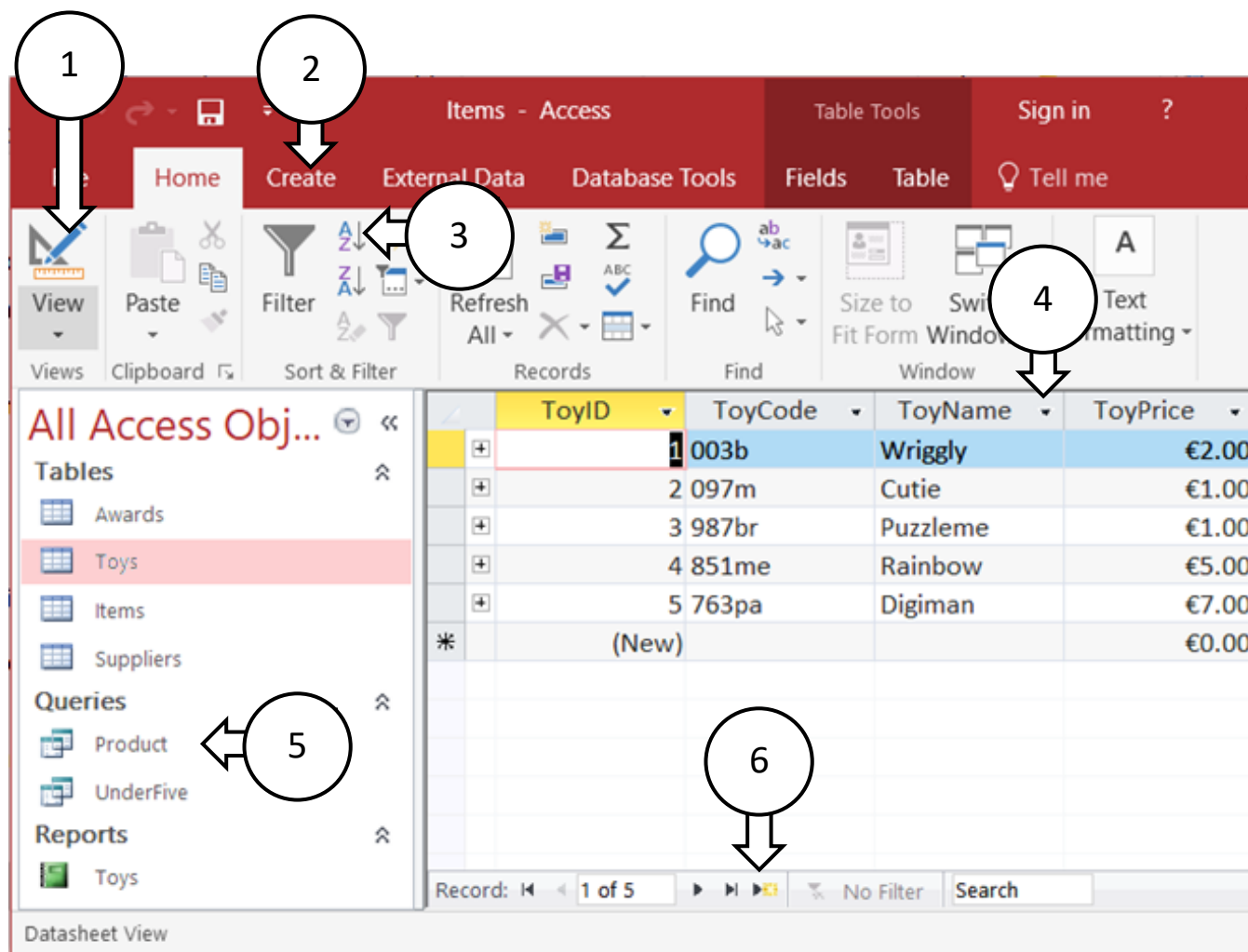
	Choose the best answer.	Answer
13.	<p>What is the main purpose of relating tables in a database?</p> <p>A. To minimise duplication of data.</p> <p>B. To present the tables in a graphical way.</p> <p>C. To be able to generate reports quicker.</p> <p>D. To avoid the need for using queries.</p>	
14.	<p>Why is it important to maintain referential integrity between related tables?</p> <p>A. Because it prevents reports from being modified.</p> <p>B. Because it prevents creation of duplicate data.</p> <p>C. Because it will create better formatted reports.</p> <p>D. Because it will make designing new tables easier.</p>	
15.	<p>Who is responsible for allowing data to be shared among database users?</p> <p>A. Database administrator</p> <p>B. Database auditor</p> <p>C. Database designer</p> <p>D. Database user</p>	
16.	<p>Who is responsible for editing the data in a database?</p> <p>A. Database designer</p> <p>B. Database auditor</p> <p>C. Database administrator</p> <p>D. Database user</p>	

	Choose the best answer.	Answer
17.	<p>Who is responsible for data recovery after a database crash?</p> <p>A. The database auditor</p> <p>B. The database end user</p> <p>C. The database administrator</p> <p>D. The database engineer</p>	
18.	<p>What is a query used for in a database?</p> <p>A. It is used to format information for printing.</p> <p>B. It is used to extract data.</p> <p>C. It is used to display all records in a table.</p> <p>D. It is used to update records one at a time.</p>	
19.	<p>Which of the following describes the main use for a report?</p> <p>A. Maintain records by being able to edit outdated records.</p> <p>B. Extract and change data.</p> <p>C. Share data between databases.</p> <p>D. Compile information for printing.</p>	
20.	<p>What is the process of sending data from a table to an electronic spreadsheet called?</p> <p>A. Exporting to CSV file.</p> <p>B. Exporting to XLS/XLSX file.</p> <p>C. Importing from XLS/XLSX file.</p> <p>D. Importing from MDB file.</p>	

SECTION B

[30 marks]

Q1. The following picture is showing a database with 4 tables, 2 Queries and a Report. The table Customers is opened in Datasheet view.

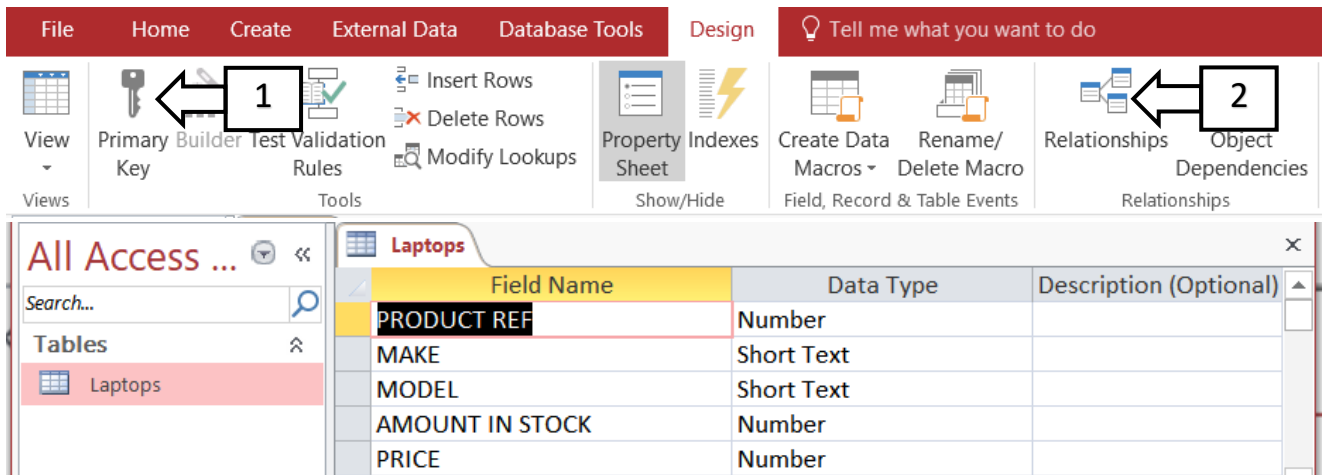


Write the numbers of the corresponding labels to answer the following:

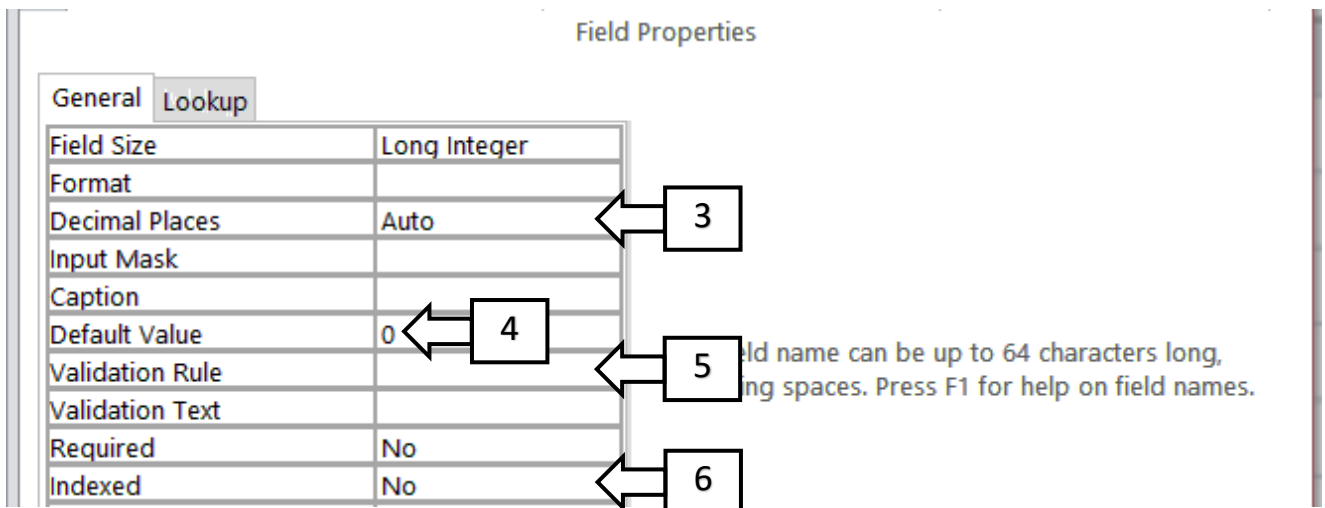
21. Where can you click to design a new query?
22. Where can you click to add another field in the table Toys?
23. Where can you click to select the Product query?
24. Where can you click to add a new record?
25. Where can you click to sort the records in ascending order by the field ToyName?

(1 mark each)

Q2. A table named Laptops has 5 fields, three of which are of type Number:



The picture below shows the Field Properties of data type Number:

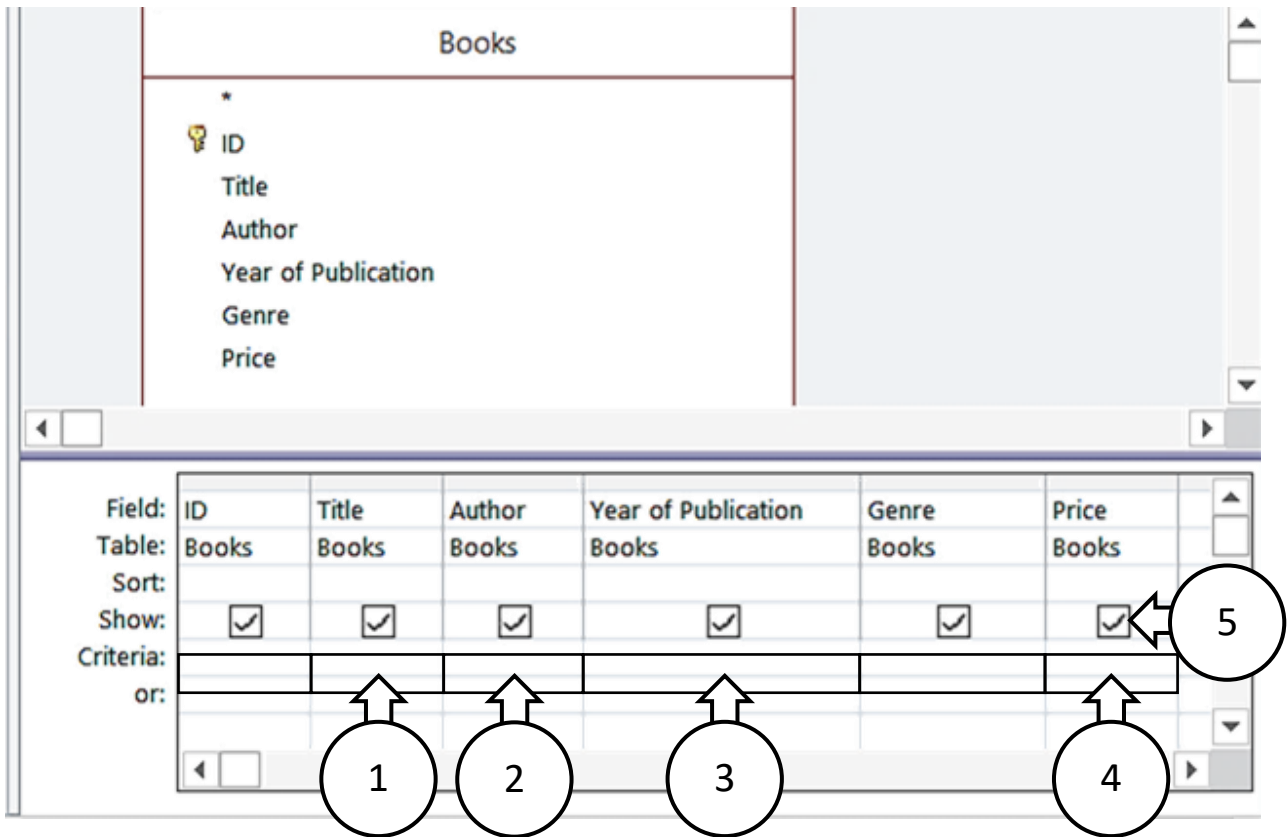


Answer by writing the corresponding label numbers from the above two pictures:

26. After selecting the field AMOUNT IN STOCK, where can you click to make sure that the data entered in this field is never smaller than 0?
27. Where can you click to set a numeric field to Decimal?
28. After selecting PRODUCT REF field, where can you click to make sure that it is set as the key field?
29. Where can you click to make 75 appear as the AMOUNT IN STOCK each time a new record is created?
30. Where can you click to link a table to another table by using key fields?

(1 mark each)

Q3. A Query is created using 6 fields from the table Books.



Choose the most appropriate label number from the picture above:

31. Where should you enter a criterion to list all the books that were published in 2020?
32. Where can you click to hide the Price when listing the books?
33. Where should you type the criterion to list all books written by J.K. Rowling?

Choose the most appropriate answer using A, B, C or D:

34. To select all books with a title containing the word "sea", you need to type one of the following. Which one?
A. ="sea" **B.** "sea" **C.** "sea?" **D.** "*"sea*"
35. To select a book with a price range from €20 to €30 included, you need to type one of the following. Which one?
A. BETWEEN 20 AND 30 **B.** =20 OR =30
C. >20 AND <30 **D.** FROM 20 TO 30

(1 mark each)

Q4. A query was designed using fields from the Stock table:

Write the appropriate criteria in the screen shots provided to design the following queries:

Stock	
*	
	ToyID
	Item Description
	Brand
	Quantity
	Date of Invoice

36. Select records with Quantity greater than 10 AND less than 20.

Field:	ToyID	Brand	Quantity	Date of Invoice
Table:	Stock	Stock	Stock	Stock
Sort:				
Show:	☒	☒	☒	☒
Criteria:				
or:				

(2 marks)

37. Select records with a Date of Invoice later than 18/1/2022.

Field:	ToyID	Brand	Quantity	Date of Invoice
Table:	Stock	Stock	Stock	Stock
Sort:				
Show:	☒	☒	☒	☒
Criteria:				
or:				

(2 marks)

38. Select records with Quantity being 5 or 10.

Field:	ToyID	Brand	Quantity	Date of Invoice
Table:	Stock	Stock	Stock	Stock
Sort:				
Show:	☒	☒	☒	☒
Criteria:				
or:				

(2 marks)

Q5. A Report is created using 6 fields from the table Books as shown below:

Books



Author	Title	ID	Year of Publication	Genre	Price
Jane Rod	Fishing	4	2005	Sports	2
	Frogs	2	1998	Science	8.5
John Borg	Insects	5	2003	Science	8.9
	Singing Birds	1	2001	Photography	8.5
	Spiders	6	2000	Science	7.5
Maria Abela	Horses	3	2003	Sports	11

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Complete the following statements:

39. The report is showing all Books grouped by _____.
40. The report is sorted by Title in _____ order.
41. The report can be _____ to a Text file.
42. The date when the report was generated appears in the section called Report _____.
43. To avoid wasting paper, use the print _____ option to view how the report will appear before printing it.

(1 mark each)

Q6. A Form is created using 4 fields from the table Items as shown below:

The screenshot shows a window titled 'Items' with a light blue header bar. Below the header, the word 'Items' is displayed in a large, light blue font. The form contains four input fields: 'ToyID' (empty), 'ToyCode' (containing '003b'), 'ToyName' (containing 'Wriggly'), and 'ToyPrice' (containing '€2.00'). A vertical list on the left side of the form shows the field names: 'ToyID', 'ToyCode', 'ToyName', and 'ToyPrice'. At the bottom of the form, there is a record navigation bar. It includes a 'Record:' label, a '1 of 5' indicator, and several navigation icons (back, forward, first, last, search). To the right of the navigation bar, there is a 'No Filter' button and a 'Search' input field. Six numbered callouts are present: 1 points to the 'ToyID' field; 2 points to the 'ToyCode' field; 3 points to the 'ToyName' field; 4 points to the 'ToyPrice' field; 5 points to the 'Record:' label; and 6 points to the '1 of 5' indicator.

Answer by writing the corresponding label number from the picture above:

- 44. Where can you click to edit the toy name?
- 45. Where can you click to read the last record?
- 46. Where can you click to navigate to the next record?
- 47. Where can you click to select the whole record?

(1 mark each)

End of Examination Paper