11.
In the following section of HTML markup there are a number of mistakes.

```
<td>
<p>Manta conservation workshops and holidays can be booked through
the Xtreme Adventure Holiday Company or by <a href="http://www.xahc.co.uk" target="_manta">
clicking here.</p>
<td>
<p><href="mailto:tmcp@cie.org.uk">Email</a> us for details of our
Manta Education Packs or <a href="mailto,tmcp@cie.org.uk,subject=Donation by
John">click on this link<a> to discover how to donate to help us preserve
these disappearing species.</p>
</td>
```

Identify **six** mistakes which prevent this from working as intended.

1 ....

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2 ....

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6 ....

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[6]

12. Discuss the use of spreadsheet software compared to database software to store
and manipulate student data.

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13. A school's examinations officer has decided to develop a database to store pupil details and the examinations they are due to sit next summer. They are going to use a relational database.

Describe the steps involved in creating the database.

(a)..

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(b) Some of the records stored in the database are given below.

Examination_ID	Name_of_subject	Examination_level	Date_of_exam
041731	ICT	IGCSE	12/04/2018
047822	Computer Science	IGCSE	11/06/2018
604312	Design and Technology	O Level	01/06/2018
301532	French	O Level	28/06/2018

Based only on the examination details above, complete the table below, stating the most appropriate **data type** for each field.

Field name	Data type
Examination_ID	
Name_of_subject	
Examination_level	
Date_of_exam	

[4]

(c) Write the search criteria to search for all examinations which will be sat after 26/06/2018, using at least one of the following operators >, >=, <, <=, = .

....

.... [2]

(d) Apart from presence check, name and describe a suitable validation check for each of the following fields in the database, based on the data shown in **part (b)**.

Examination_ID...

....

....

Date_of_exam...

....

....

[4]

14. TheXtremeAdventureHolidayCompanyaresettingupaspreadsheetfortheirpayroll.Theyhave job codes for each of their employees. Below is part of the payroll spreadsheet.

	A	B	C	D	E	F	G
1	The Xtreme Adventure Holiday Company						
2							
3							
4							
5	Job codes						
6	A	Administration/Office					
7	B	Snowboard Instructor					
8	H	Host/Hostess					
9	S	Ski Instructor					
10	SA	Senior Administrator					
11	TA	Transport Assistant					
12	TB	Trainee Snowboard Instructor					
13	TM	Transport Manager					
14	TS	Trainee Ski Instructor					
15							
16	Employees						
17	Name	Job code	Job description				
18	Luca Gisi	B					
19	Livio Stager	S					
20	Nico Gantert	B					
21	Fabian Ging	S					
22	Mattia Polt	S					
23	Sofia Walp	H					
24	Laura Haener	S					
25	Alessandro Messerli	S					
26	Lara Forrer	B					
27	Arda Hegler	S					
28	Simone Aebi	B					

a. Describe giving a suitable name for the range (A6:B14), how the payroll manager could name this range.

....
....
....
....
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....

b. Write a formula for cell C18 to display the job description, using the name range from part (a)

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....
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....

15. The following icons are used on the slides in presentation software.

Write down the most appropriate meaning for each icon.

Icon	Meaning
🏠	
▶	
▶|	
🖨	

16. Different terms are used in document production.4
Complete the following sentences

(a) The unit used to measure the size of a font is called

.... [1]

(b) A page can be portrait or landscape. This is called

.... [1]

(c) The special margin that is placed at the top or edge to clear the text from the fold in a page is called the

.... [1]

(d) When the first line of a paragraph appears as the last line of a page this is called

.... [1]

17. A school is creating a spreadsheet as a method of recording academic performance of students in IGCSE Geography.

The spreadsheet lists each student's name and their target level. The levels range from 1 to 9, where 9 is the best level.

Teachers enter the current working level. If the working level is the same or better than target level then ''well done'' is displayed in the comment cell, otherwise ''needs improvement'' is displayed.

	A	B	C	D	E	F	G
1	Name		Target Level	Working Level	Comment		
2	Peter	Smith	9	6			
3	Frances	Brown	5	7			

a. Write a formula for cell E2 to automatically display ''needs improvement'' or ''well done''

....

....

18.

8 A club is setting up a database to store details of its members.

(a) Complete the data dictionary of the database, adding the most appropriate data type for each field.

Field name	Data type
Membership_number	Number
Member_name	
Membership_fee_paid	Boolean
Telephone_number	
Expiry_date_of_membership	
Membership_fee_amount	

[4]

(b) The club secretary wishes to find all the junior members who have paid their membership fee which would be less than $100.

He searches for these members by typing in the following search criteria.

Membership_fee_amount < 100 AND Membership_fee_paid ="Y"

He now wishes to invite selected members to a special evening. These members will be those with a membership number over 200 as well as members whose membership expiry date is before 1 Jan 2017.

Write search criteria to list all the members that should be invited.

....

.... [5]

19.

Tawara Health Centre is creating a new online appointment system for its patients.

The developer has created a table showing part of the file structure of the new database.

Field name	Data type	Field length	Comment
Medical_ID_number	Numeric: integer		12-digit unique number
Date_of_birth	Date/Time		dd/mmm/yyyy
Family_name	Text	10	
Doctor_name	Text	20	
Appointment_time	Date/Time	5	hh:mm
Contact_telephone_number	Text		01617151234
Current_medication	Text	20	
Blood_type	Text	3	A, O, AB, B Each can be + or –

(a) Apart from presence check, for each field, name an appropriate validation check that could be used. Your answer should be different in each case.

Field name	Validation check
Medical_ID_number	
Blood_type	
Date_of_birth	
Contact_telephone_number	

[4]

(b) Referring to the fields in the table, name the most appropriate field that could be used as a primary key.

.... [1]

20.

A manager of a computer store has created a relational database to keep track of its orders. She has created two tables that are linked together.

Table A stores the products.
Table B stores the order details.

The following data shows some records from the database.

Table A: products

Product_ID	Product_name	Unit_price
1232	PC Base unit	$300
1246	Monitor TFT	$250
1678	Mouse	$9
2314	Keyboard	$9
3214	Laser printer	$250

Table B: order details

Order_ID	Product_ordered	Quantity
1231	1232	1
1233	1246	10
1234	1678	15
1235	2314	4
1236	2314	16
1237	3214	20

(a) Name the most suitable primary key in the products table.

....[1]

(b) Name a suitable foreign key in the order details table.

....[1]

(c) On the data shown in the tables above, the following search is to be carried out:

(Unit_price>$250)

Write down the Order_ID resulting from this search.

....[1]