

FOR OFFICIAL USE



National
Qualifications

Mark

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CS(H)22B

Computing Science

Duration – 2 hours

Fill in these boxes and read what is printed below.

Full name of centre

Town

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Forenames(s)

Surname

Number of seat

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Date of birth

Day

Month

Year

D	D
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M	M
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Y	Y
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Scottish candidate number

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Total marks - 80

SECTION 1 - 55 marks

Attempt ALL questions.

Attempt questions from **either** SECTION 2 or SECTION 3 **only**.

SECTION 1 - Database Design and Development

Page 18

SECTION 2 - Web Design and Development

Page 27

Write your answers clearly in the spaces provided in this booklet. Additional space for answers is provided at the end of this booklet. If you use this space you must clearly identify the question number you are attempting.

Use **blue** or **black** ink.

Before leaving the examination room you must give this booklet to the invigilator. If you do not, you may lose all marks for this paper.

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Attempt ALL questions

- ```

Line 30 SET size TO LENGTH(values)
Line 31 SET counter TO 0
Line 32 RECEIVE target FROM (INTEGER) KEYBOARD
Line 33 FOR elements FROM 0 TO size DO
Line 34 IF values[elements] = target THEN
Line 35 SET counter TO counter + 1
Line 36 END IF
Line 37 END FOR

```

- 1

- 2

- 1

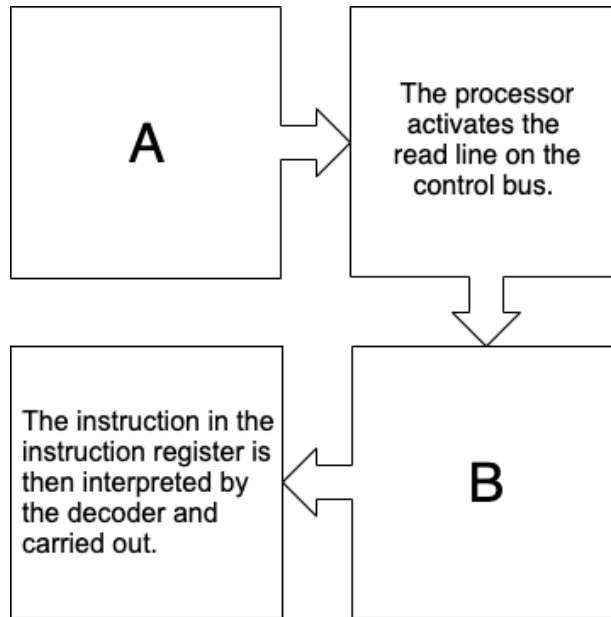
- 1

-102



4. An instruction to be executed is held in memory location 8211.

Some of the steps required to fetch and execute this instruction are shown below.



Complete the missing steps of the fetch execute cycle using the information provided.

2

A \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

B \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

5. A digital certificate is used when securing data transmission through encryption.

State the purpose of a digital certificate in encrypted data transmission.

2

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\_\_\_\_\_

[Turn over

MARKS

DO NOT  
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6. The decimal number 12.875 converted to binary is 1100.111

Convert 1100.111 to floating point representation. There are 16 bits for the mantissa (including the sign bit) and 8 bits for the exponent.

3

*Space for your calculations*

| sign | mantissa | exponent |
|------|----------|----------|
|      |          |          |

7. A Scottish Candidate Number (SCN) is used to identify candidates sitting examinations. It consists of eight integers followed by an integer check digit.

Scottish Candidate Number: 11023021 4

When an SCN is entered into a computer system, the check digit is calculated and compared to the one entered as part of the number. If the two match, then the SCN has been entered correctly.

The check digit is calculated by multiplying each digit by a weight and adding it to a total. The modulus of total divided by 11 is then subtracted from 11 to give the check digit. For example:

| Digit | Weight | Example SCN | Digit x Weight |
|-------|--------|-------------|----------------|
| 1     | 3      | 1           | 3              |
| 2     | 2      | 1           | 2              |
| 3     | 7      | 0           | 0              |
| 4     | 6      | 2           | 12             |
| 5     | 5      | 3           | 15             |
| 6     | 4      | 0           | 0              |
| 7     | 3      | 2           | 6              |
| 8     | 2      | 1           | 2              |

The total of the digit x weight column is 40.

40 divided by 11 gives a remainder of 7 (the modulus).

$11 - 7 = 4$ , 4 is the check digit.

- (a) Using a programming language of your choice, write code to show how the modulus of total divided by 11 would be calculated and stored in result.

1

[Turn over

7. (continued)

An array, called scn, is used to store the digits of a Scottish Candidate Number ,as shown below. The last digit in the array is the check digit.

|     |   |   |   |   |   |   |   |   |   |
|-----|---|---|---|---|---|---|---|---|---|
|     | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| scn | 0 | 7 | 0 | 1 | 6 | 1 | 4 | 0 | 0 |

The weights used to calculate the check digit are also stored in an array.

|        |   |   |   |   |   |   |   |   |
|--------|---|---|---|---|---|---|---|---|
|        | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| weight | 3 | 2 | 7 | 6 | 5 | 4 | 3 | 2 |

- (b) Using a design technique of your choice, design a solution that will calculate the check digit for an SCN and then check this against the one entered.

The program should display a message with the SCN stating if it is valid or not e.g. 070161400 is a valid SCN

MARKS

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5

## 7. (continued)

- (c) A focus group is held with candidates who make use of the SCN to sit exams. The output of the focus group is to inform a software development project to make examination results and personal data more accessible.

The group have been discussing the requirements of a new system.



Use the information above to identify an input, a process and an output in terms of functional requirements.

3

Input:

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Process:

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Output:

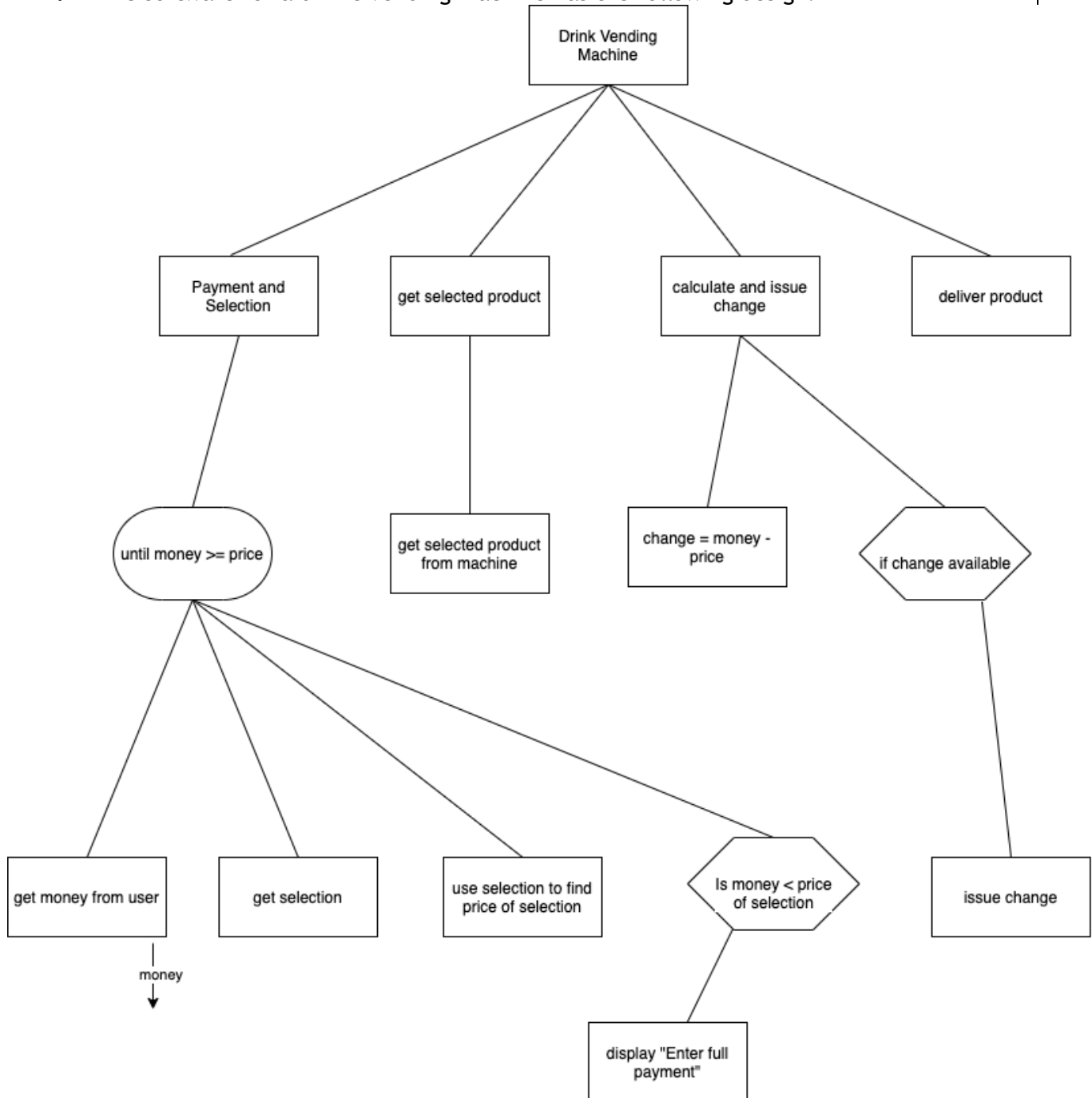
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[Turn over



8. The software for a drinks vending machine has the following design.



- (a) Mark all data flows on the diagram above. The first one, money passed out from the step get money from user, has been done for you.

5

8. (continued)

- (b) The machine holds the details of products.



**Product: Citrus Spring**

**Selection: D8**

**Price: 1.70**

**Stock: 12**

- (i) The details of a product are held in a record structure.

Using a programming language of your choice, define a suitable record data structure for the data above.

2

|  |
|--|
|  |
|--|

- (ii) Using a programming language of your choice, define the variable which can store the details of 40 products held in the vending machine. Your answer should use the record data structure created in part (i).

2

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[Turn over

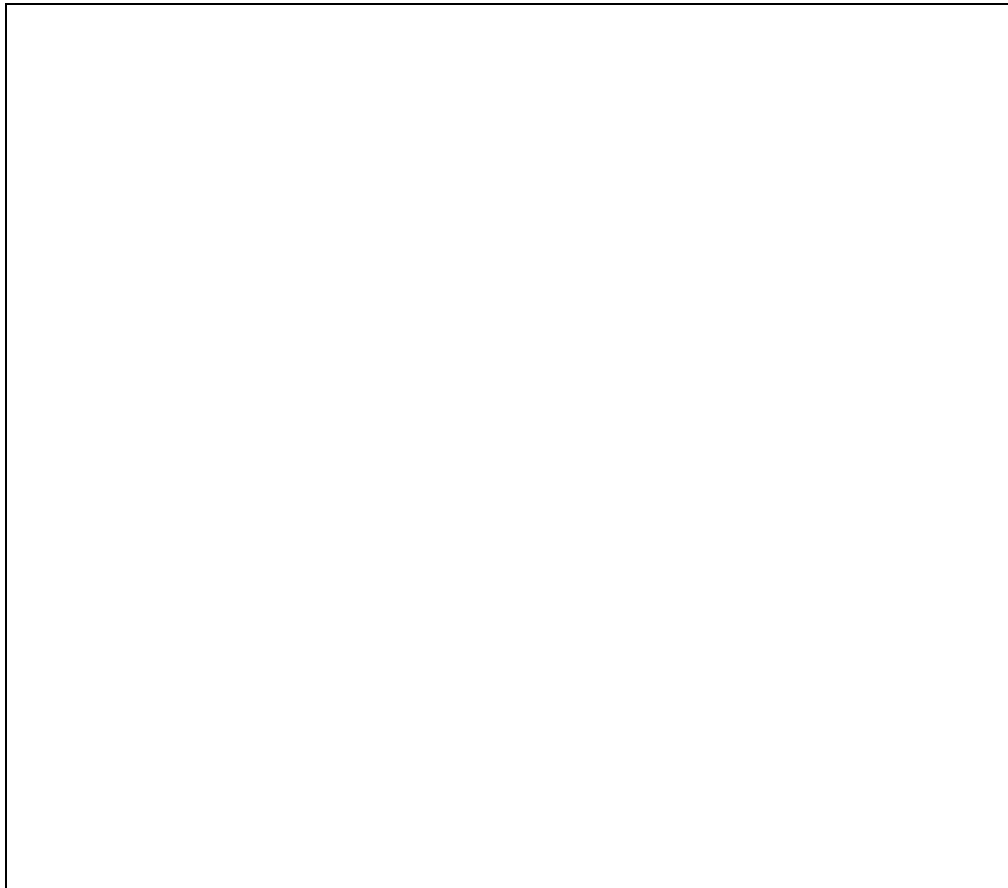
## 8. (continued)

- (c) Use selection to find price is a module from the structure diagram.

Using your data structures from (b)(i) and (b)(ii) and a design technique of your choice, design an efficient solution to find the price of a drink based on the selection entered.

If the selection is not found the price should be set to -99.

5



- (d) A programmer, in the team writing the software has suggested that Unicode should be used to store the details of the selections available. Another programmer in the team says they should use Extended ASCII.

Explain why using Unicode may not provide any benefit when compared with Extended ASCII for this program.

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9. Adcord is an online discussion forum that allows players of computer games to chat together in different rooms. The rooms are named after computer games. Details of which players are members of which rooms are stored in a text file. The number of times that a player has commented in each room is also stored.

Part of the file is shown below.

```
jaarnial@optonline.net,Control,79
jaarnial@optonline.net>HelloEngineer,100
jaarnial@optonline.net,Driver2,30
melnik@optonline.net,OneHundredDays,5
scarolan@hotmail.com,Driver2,17
scarolan@hotmail.com>HelloEngineer,24
scarolan@hotmail.com,Control,81
jugalator@verizon.net,Control,27
jugalator@verizon.net,Driver2,19
...
```

- (a) The data will be stored in parallel 1D arrays.

Using a programming language of your choice, declare parallel 1D arrays that can store 5000 of these room memberships.

2

- (b) The memberships of rooms are stored in a file called 'adcord.csv'. Using a programming language of your choice, show how this file would be opened.

2

[Turn over]

## 9. (continued)

- (c) During development of the online forum software, a programmer wants to join two strings together. The operator for this is & but the programmer types the following:

fullname = firstname \$ secondname

State the type of error that has occurred.

1

- (d) The online forum software displays a rank for users based on the number of comments they have posted. A function for this purpose is shown below.

```

Line 55 FUNCTION userRank(INTEGER comment) RETURNS STRING
Line 56 IF comment < 100 THEN
Line 57 SET Rank TO "Bronze"
Line 58 ELSE
Line 59 IF comment > 100 AND comment < 200 THEN
Line 60 SET Rank TO "Silver"
Line 61 ELSE
Line 62 SET Rank TO "Gold"
Line 63 END IF
Line 64 END IF
Line 65 RETURN Rank
Line 66 END FUNCTION

```

- (i) Complete the trace table using the test data shown.

2

|         | comment | Rank |
|---------|---------|------|
| Line 55 | 87      |      |
| Line 65 |         |      |

|         | comment | Rank |
|---------|---------|------|
| Line 55 | 350     |      |
| Line 65 |         |      |

|         | comment | Rank |
|---------|---------|------|
| Line 55 | 100     |      |
| Line 65 |         |      |

- (ii) A comment value of 100 should return "Silver". Amend line 59 so that it functions as expected.

1

10. A “smart home” makes use of sensors and automation to manage heating, lighting, door locks, alarms and media devices such as speakers and televisions.

(a) The “smart home” is managed by a computer system.



8 Core Processor

3.2 GHz Clock Speed

To improve system performance there are two options available. One is to increase the number of processor cores to 16 and the other is to increase the clock speed to 6.4 GHz.

- (i) Describe an advantage of increasing the number of cores for the processor operating the smart home.

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- (ii) Compare the performance of a processor with 16 cores and a clock speed of 3.2 GHz with a processor of 8 Cores and a clock speed of 6.4 GHz.

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[Turn over

10. (continued)

- (b) The smart home keeps a record of the temperature in the home based on readings that it takes every 5 minutes. These readings are stored in an array called temp.

|      |      |      |      |     |      |      |      |
|------|------|------|------|-----|------|------|------|
| temp | 16.5 | 20.2 | 19.5 | ... | 20.5 | 21.2 | 19.8 |
|------|------|------|------|-----|------|------|------|

There are 480 readings in a day.

Using a recognised design technique, design an algorithm to find the maximum temperature reading for a day.

MARKS

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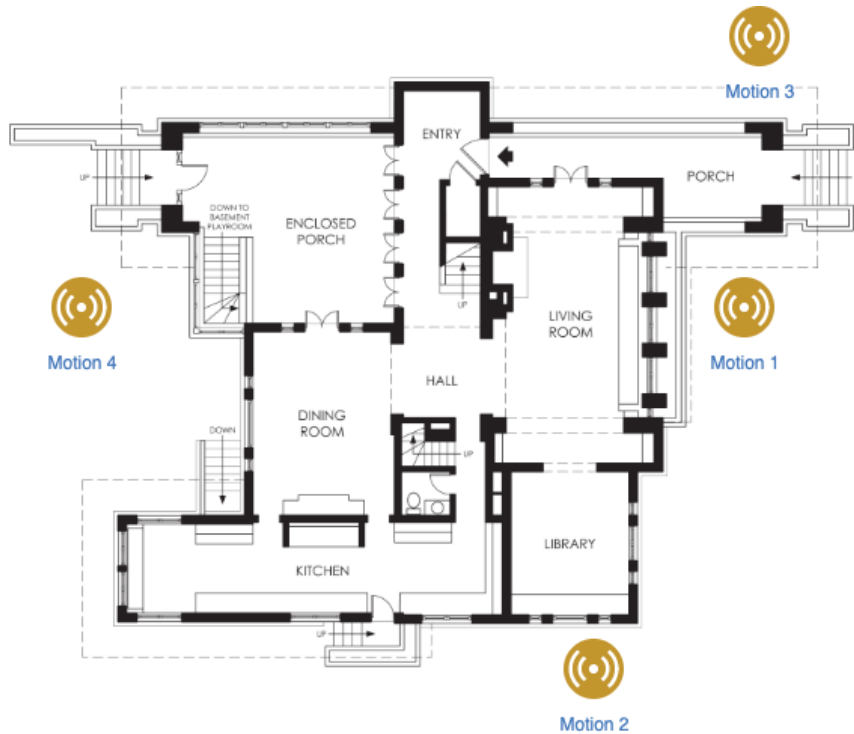
4

10. (continued)

MARKS

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(c) The smart home monitors security sensors around the home.



The following code is used to monitor the security system.

FUNCTION activateAlarm() RETURNS BOOLEAN

```
DECLARE motion1 AS BOOLEAN INITIALLY FROM <Motion 1 sensor>
DECLARE motion2 AS BOOLEAN INITIALLY FROM <Motion 2 sensor>
DECLARE motion3 AS BOOLEAN INITIALLY FROM <Motion 3 sensor>
DECLARE motion4 AS BOOLEAN INITIALLY FROM <Motion 4 sensor>
IF motion1 AND motion2 AND motion3 AND motion4 THEN
 SET activateAlarm TO True
ELSE
 SET activateAlarm TO False
END IF
RETURN activateAlarm
END FUNCTION
```

Evaluate this code in terms of fitness for purpose.

2

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[Turn over



MARKS

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**MARKS**

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You must complete **EITHER** Section 2 or Section 3

Section 2 - Database Design and Development - Page 18

OR

Section 3 - Web Design and Development - Page 27

**[Turn over for Section 2**

## SECTION 2 - Database Design and Development

Attempt ALL questions if you choose to answer this section

11. A system makes use of the following data.

Session

| SessionID | SessionTime   | SessionDay |
|-----------|---------------|------------|
| ...       | ...           | ...        |
| 2981      | 10:00 - 10:50 | Thursday   |
| 2999      | 11:00 - 11:50 | Thursday   |
| 3002      | 12:30 - 13:20 | Thursday   |
| 3003      | 16:00 - 17:00 | Friday     |
| ...       | ...           | ...        |

Space

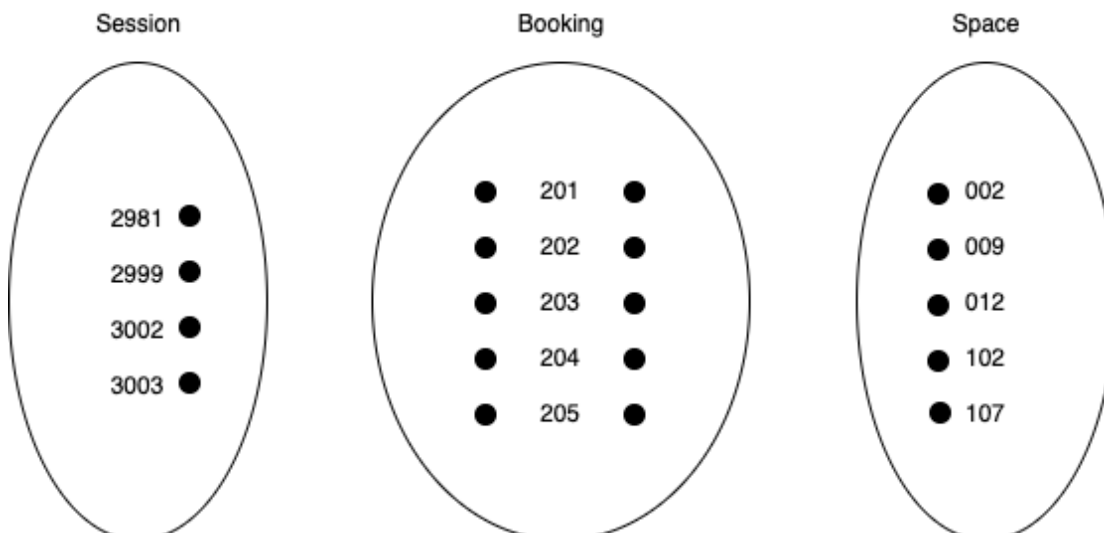
| SpaceID | SpaceName     | Equipment   |
|---------|---------------|-------------|
| ...     | ...           | ...         |
| 002     | Weights Room  | Kettlebells |
| 009     | Weights Room  | Sandbells   |
| 012     | Spin Studio 1 | Cycles      |
| 102     | Gym 1         | Treadmill   |
| 107     | Gym 2         | Elliptical  |
| ...     | ...           | ...         |

Booking

| Booking ID | SessionID | SpaceID |
|------------|-----------|---------|
| ...        | ...       | ...     |
| 201        | 2981      | 009     |
| 202        | 2999      | 012     |
| 203        | 2981      | 107     |
| 204        | 3003      | 002     |
| 205        | 3003      | 107     |
| 205        | 2999      | 002     |
| ...        | ...       | ...     |

- (a) Complete the entity-occurrence diagram below for the data provided above.

2



11. (continued)

(b) State the relationship between:

2

Session and Booking \_\_\_\_\_

Space and Booking \_\_\_\_\_

12. A database table is shown below.

| Product             |               |         |          |
|---------------------|---------------|---------|----------|
| productName         | category      | price   | quantity |
| PRIME TRX40-PRO     | Motherboard   | 129.00  | 3        |
| ROCK TRX40-PRO      | Motherboard   | 189.99  | 2        |
| ROG STRIX TRX30     | Motherboard   | 103.50  | 2        |
| AMD Ryzen 9 5900 X  | Processor     | 499.99  | 1        |
| AMD Ryzen 7 5800 X  | Processor     | 480.00  | 1        |
| Intel Core i9 S2066 | Processor     | 539.99  | 2        |
| Intel Core i5 S1066 | Processor     | 230.99  | 4        |
| ASUS Radeon RX 6900 | Graphics Card | 1799.99 | 2        |
| ASUS Radeon RX 6800 | Graphics Card | 1099.99 | 1        |
| ASRock Radeon RX    | Graphics Card | 744.98  | 2        |

Complete the table below showing the expected output from the following SQL statement.

2

```
SELECT category, MAX(price) AS 'Most Expensive'
FROM product
WHERE quantity >=2
GROUP BY category
```

| category | Most Expensive |
|----------|----------------|
|          |                |

[Turn over

13. A vet uses the following database about pets and their owners. Each pet has a unique microchip, which can be scanned if the pet is lost or stolen and then found. Where pets are insured by an insurance company, this is also stored.

Pet

| PetID | Name     | Species | ChipID | Sex | Dob        | OwnerID |
|-------|----------|---------|--------|-----|------------|---------|
| 668   | Fluffy   | cat     | 979603 | f   | 2013-04-02 | 828     |
| 669   | Claws    | cat     | 324818 | m   | 2014-03-17 | 828     |
| 670   | Buffy    | dog     | 782401 | f   | 2019-05-13 | 830     |
| 671   | Fang     | dog     | 607059 | m   | 2010-08-27 | 831     |
| 672   | Bowser   | dog     | 715053 | m   | 2019-08-31 | 827     |
| 673   | Chirpy   | bird    | 508514 | f   | 2020-11-09 | 828     |
| 674   | Whistler | bird    | 584264 | f   | 2020-09-12 | 828     |
| 675   | Slim     | snake   | 988321 | m   | 2021-04-29 | 831     |
| ...   | ...      | ...     | ...    | ... | ...        | ...     |

Microchip

| ChipID | MobileNumber | Status             |
|--------|--------------|--------------------|
| 979603 | 07700 900829 | Lost or Stolen     |
| 324818 | 07700 900829 | Not Lost or Stolen |
| 782401 | 07700 900966 | Not Lost or Stolen |
| 607059 | 07700 900945 | Not Lost or Stolen |
| 715053 | 07700 900912 | Not Lost or Stolen |
| 508514 | 07700 900829 | Not Lost or Stolen |
| 584264 | 07700 900829 | Not Lost or Stolen |
| 988321 | 07700 900945 | Lost or Stolen     |
| ...    | ...          | ...                |

Owner

| OwnerID | Firstname | Lastname |
|---------|-----------|----------|
| 827     | Harold    | Walters  |
| 828     | Gwen      | Wilson   |
| 830     | Benny     | Hill     |
| 831     | Diane     | Keaton   |
| ...     | ...       | ...      |

InsuredPets

| PetID | InsuranceID |
|-------|-------------|
| 668   | 3           |
| 670   | 2           |
| 671   | 3           |
| 673   | 4           |
| 675   | 4           |
| ...   | ...         |

Company

| InsuranceID | Company    |
|-------------|------------|
| 1           | Direct Pet |
| 2           | Safe Care  |
| 3           | MyPet.com  |
| 4           | Direct Pet |
| ...         | ...        |

## 13. (continued)

- (a) Draw an entity relationship diagram to show the relationships that exist in this database.

Your answer should show the entity names and cardinality. Attributes are not required on the diagram.

4

- (b) A list of pets with their insurance company is used by the vet.

Write the SQL statement to produce the output shown below.

3

| Name   | Company    |
|--------|------------|
| Fluffy | MyPet.com  |
| Buffy  | Safe Care  |
| Fang   | MyPet.com  |
| Chirpy | Direct Pet |
| Slim   | Direct Pet |

[Turn over]

## 13. (continued)

- (c) A report is required to show the status of cats.

| Status             | Number of<br>Pets | Species |
|--------------------|-------------------|---------|
| Lost or Stolen     | 1                 | cat     |
| Not Lost or Stolen | 1                 | cat     |

The following SQL statement is executed.

```
SELECT Microchip.Status, SUM(Microchip.Status), Pet.Species
FROM Microchip, Pet
WHERE Microchip.ChipID = Pet.ChipID AND
 pet.Species = "cat"
```

When tested, the actual output did not match the expected output.

Identify the three errors in the above SQL Statement.

3

Error 1 \_\_\_\_\_

\_\_\_\_\_

Error 2 \_\_\_\_\_

\_\_\_\_\_

Error 3 \_\_\_\_\_

\_\_\_\_\_

**MARKS**

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[Turn over for Question 14]



14. A shop called “Digital Life” has a website that allows customers to place orders for the products the shop sells.

Details entered are stored in a relational database.

The shop owners can see the totals of sales for their products, see the value of orders that customers are placing and view their top customers. Customers can view each of the orders they have placed.

- (a) State two functional requirements of the relational database.

2

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- (b) Some data stored in the database is shown in the four tables below.

customers

| custID | email                | name           | address                     | postcode |
|--------|----------------------|----------------|-----------------------------|----------|
| 1      | sally@happyshop.com  | Sally Reid     | 3 Ebony Way, Dundee         | DD6 7TQ  |
| 2      | hamish@scottidog.net | Hamish McLeod  | The Manse, Fordoun          | AB16 1AW |
| 3      | azam@warmmail.org    | Azam Mohamad   | 56 Walker Street, Edinburgh | EH54 1FD |
| 4      | const@lambwool.com   | Constance Yule | 12C Port Street, Inverness  | IV23 7JD |
| ...    | ...                  | ...            | ...                         | ...      |

orders

| orderNo | custID | orderDate  |
|---------|--------|------------|
| 1001    | 1      | 2021-11-01 |
| 1002    | 2      | 2021-11-01 |
| 1003    | 3      | 2021-11-02 |
| 1004    | 2      | 2021-11-02 |
| ...     | ...    | ...        |

orderdetails

| orderdetailsID | orderNo | pID | quantity |
|----------------|---------|-----|----------|
| 1              | 1001    | 271 | 1        |
| 2              | 1001    | 321 | 1        |
| 3              | 1002    | 347 | 3        |
| 4              | 1002    | 341 | 1        |
| 5              | 1003    | 340 | 1        |
| 6              | 1004    | 300 | 2        |
| ...            | ...     | ... | ...      |

products

| pID | product               | price  |
|-----|-----------------------|--------|
| 271 | Panda Pro 6 Phone     | 840.99 |
| 300 | Panda 6 Phone         | 599.99 |
| 321 | Panda Ear Buds        | 99.99  |
| 340 | Digital Life Cam      | 179.99 |
| 341 | Digital Life Doorbell | 179.99 |
| 347 | Panda Wifi            | 89.99  |
| ... | ...                   | ...    |

## 14. (b) (continued)

- (i) When calculating the total for each order, the following data is calculated.

| orderNo | price  | quantity | LineTotal |
|---------|--------|----------|-----------|
| 1001    | 840.99 | 1        | 840.99    |
| 1001    | 99.99  | 1        | 99.99     |
| 1002    | 89.99  | 3        | 269.97    |
| 1002    | 179.99 | 1        | 179.99    |
| 1003    | 179.99 | 1        | 179.99    |
| 1004    | 599.99 | 2        | 1199.98   |
| ...     | ...    | ...      | ...       |

Design a query to produce this result.

4

|                              |  |
|------------------------------|--|
| Field(s) and calculations(s) |  |
| Table(s)                     |  |
| Search criteria              |  |
| Grouping                     |  |
| Sort Order                   |  |

[Turn over

14.(b) (continued)

- (ii) The total for each order is calculated and displayed as follows.

| orderNo | custID | Order Total |
|---------|--------|-------------|
| 1001    | 1      | 940.98      |
| 1002    | 2      | 449.96      |
| 1003    | 3      | 179.99      |
| 1004    | 2      | 1199.98     |
| ...     | ...    | ...         |

Design a query to produce this result.

3

|                              |  |
|------------------------------|--|
| Field(s) and calculations(s) |  |
| Table(s)                     |  |
| Search criteria              |  |
| Grouping                     |  |
| Sort Order                   |  |

[END OF SECTION 2]

MARKS

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### SECTION 3 - Web Design and Development

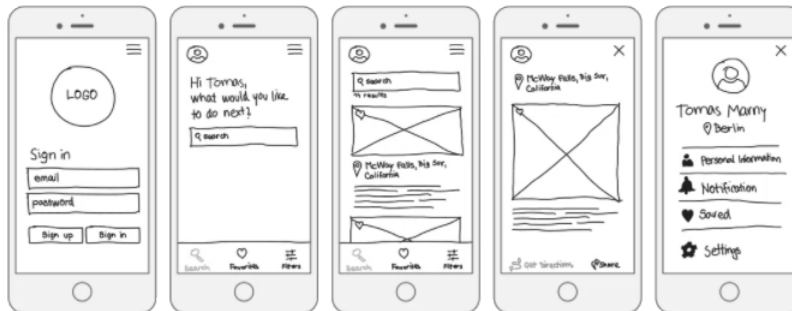
MARKS

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Attempt ALL questions if you choose to answer this section

15. A low-fidelity prototype for a new social media site has been created.

2



Describe how this prototype will be used to carry out usability testing.

2

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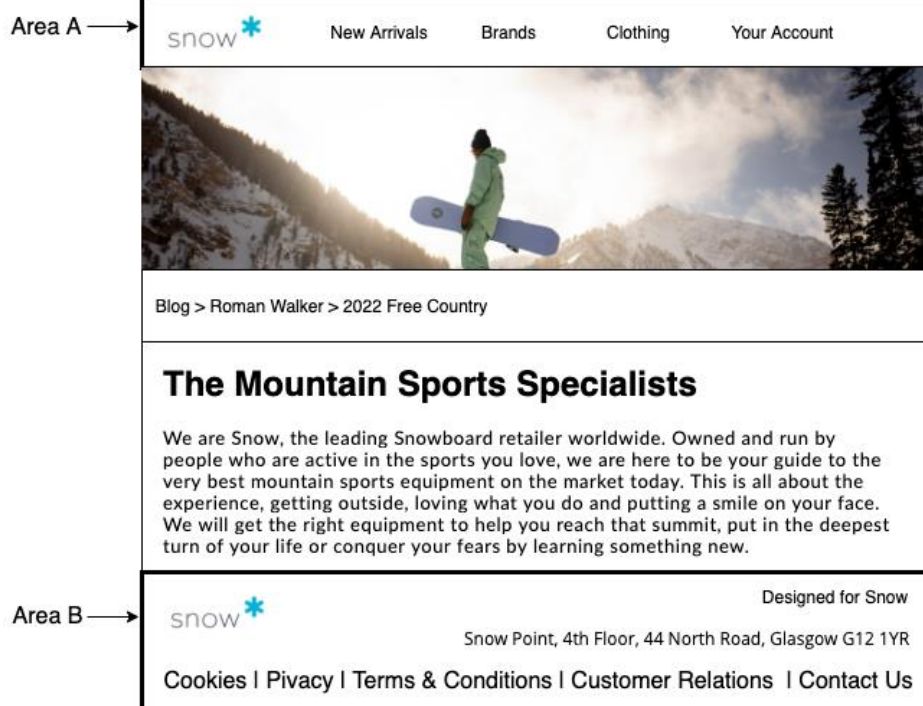


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16. A web page has been created using HTML elements to define areas of the page.



State the HTML element which have been used for area A and area B.

2

Area A \_\_\_\_\_

Area B \_\_\_\_\_

[Turn over

17. Some HTML from a web page is shown below.

```
<h2>Guardians of the universe</h2>
```

This heading is to be blue and float to the left.

Rewrite the HTML above to include inline CSS code to format the text as required.

2

18. Guitar Tech Ltd is developing a web site. The website will be multi-level, consisting of a home page and pages for each of the following: Repairs, Setup, Touring, Contact Us. Repairs has two subpages: Acoustic, Electric. Touring has two subpages: Photos and Blog.

- (a) Design a multi-level structure for this website.

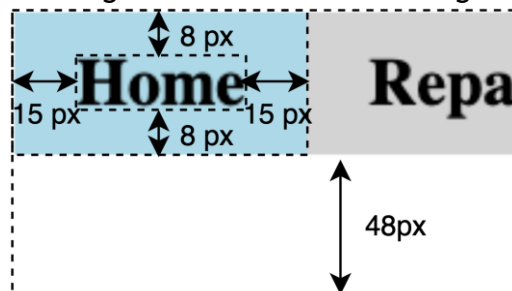
2

- (b) The site has a horizontal navigation bar. The HTML for the navigation bar is shown below.

```
<ul class="horizontal" id="nav">
 Home
 Repairs
 Setup
 Touring
 Contact Us

```

A wireframe for the navigation bar has the following dimensions.



Complete the missing properties of the CSS below to format the menu as required.

4

```
ul.horizontal {
 width: 100%;
 float: left;

 margin: _____;
 padding: 0;

 list-style: _____;
 background-color: lightgrey;
}

ul.horizontal li {
 float: left;
}

ul.horizontal li a {

 display: _____;

 padding: _____;
 text-decoration: none;
 font-weight: bold;
 color: black;
}

ul.horizontal li a.active {
 background-color: lightblue;
}
```

[Turn over



18. (continued)

- (c) Explain why descendant selectors are used in (b)

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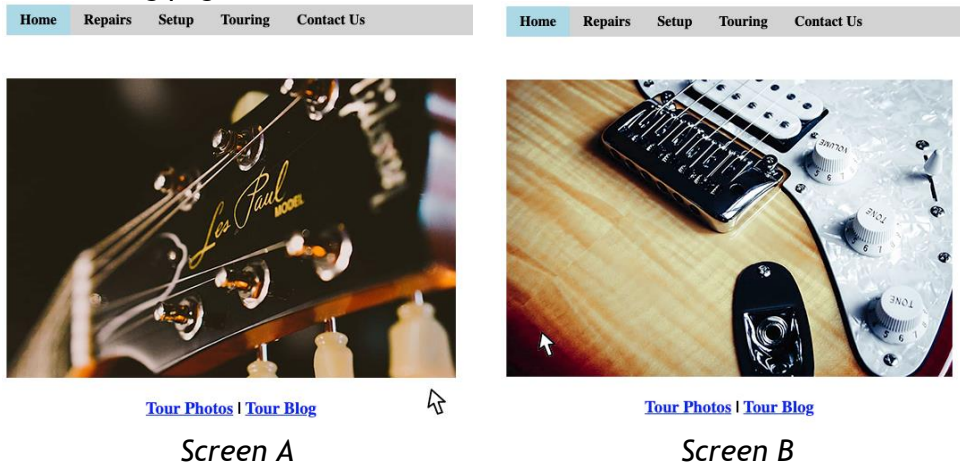


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- (d) The Touring page from the Guitar Tech Ltd site is shown below.



When the page loads, and the mouse pointer is not on the image, screen A is shown. When the mouse is moved over the image, Screen B is shown.

When the mouse is moved back off the image, it should return to Screen A, but currently it does not.

HTML Code for parts of the page are shown below.

```
...
<script>
 function swapimage(guitarpic) {
 guitarpic.src="guitar2.png";
 }
</script>
</head>
...
<main>
 <div style="width:500px">
 <image src="guitar1.png" onmouseover="swapimage(this);"
 </div>
 <div style="text-align: center; width:500px">
 <h3>
 Tour Photos |
 Tour Blog
 </h3>
 </div>
</main>
...
```

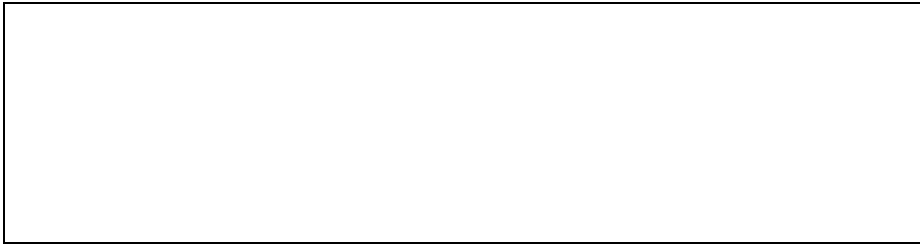




## 18. (d) (continued)

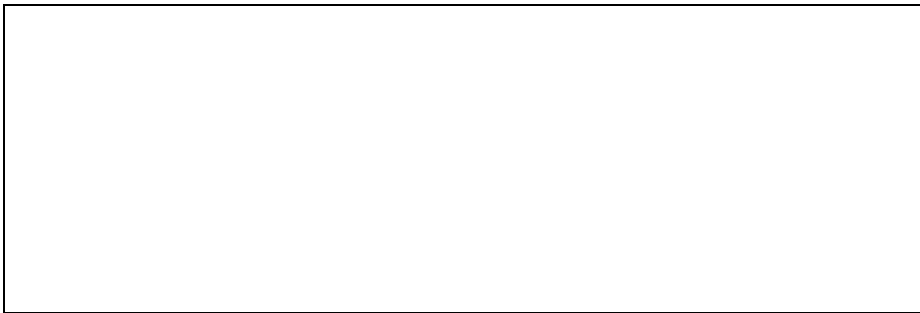
- (i) Write the JavaScript function to display the original image when the mouse is moved off the image.

2



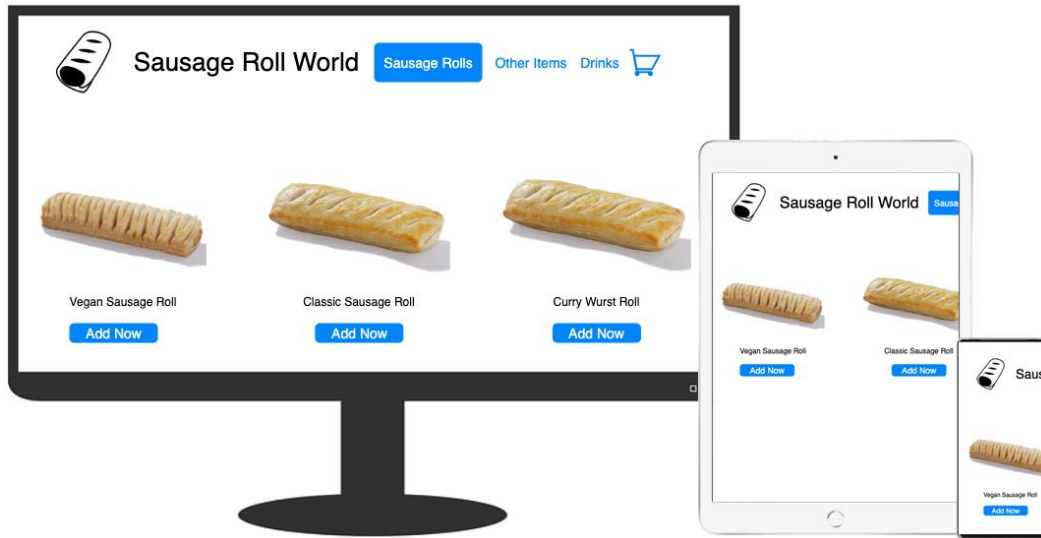
- (ii) Rewrite the HTML element to call the function created in part (i) when the mouse is moved off the image.

2



[Turn over

19. A low-fidelity prototype of a web site for ordering sausage rolls has been created.



- (a) The prototype displays as expected on a desktop computer but there are issues on other device types.

Explain the role of compatibility testing as part of the development of a web site.

2

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- (b) Compatibility testing should also be carried out with different web browsers. Explain why testing using a range of web browsers is required.

2

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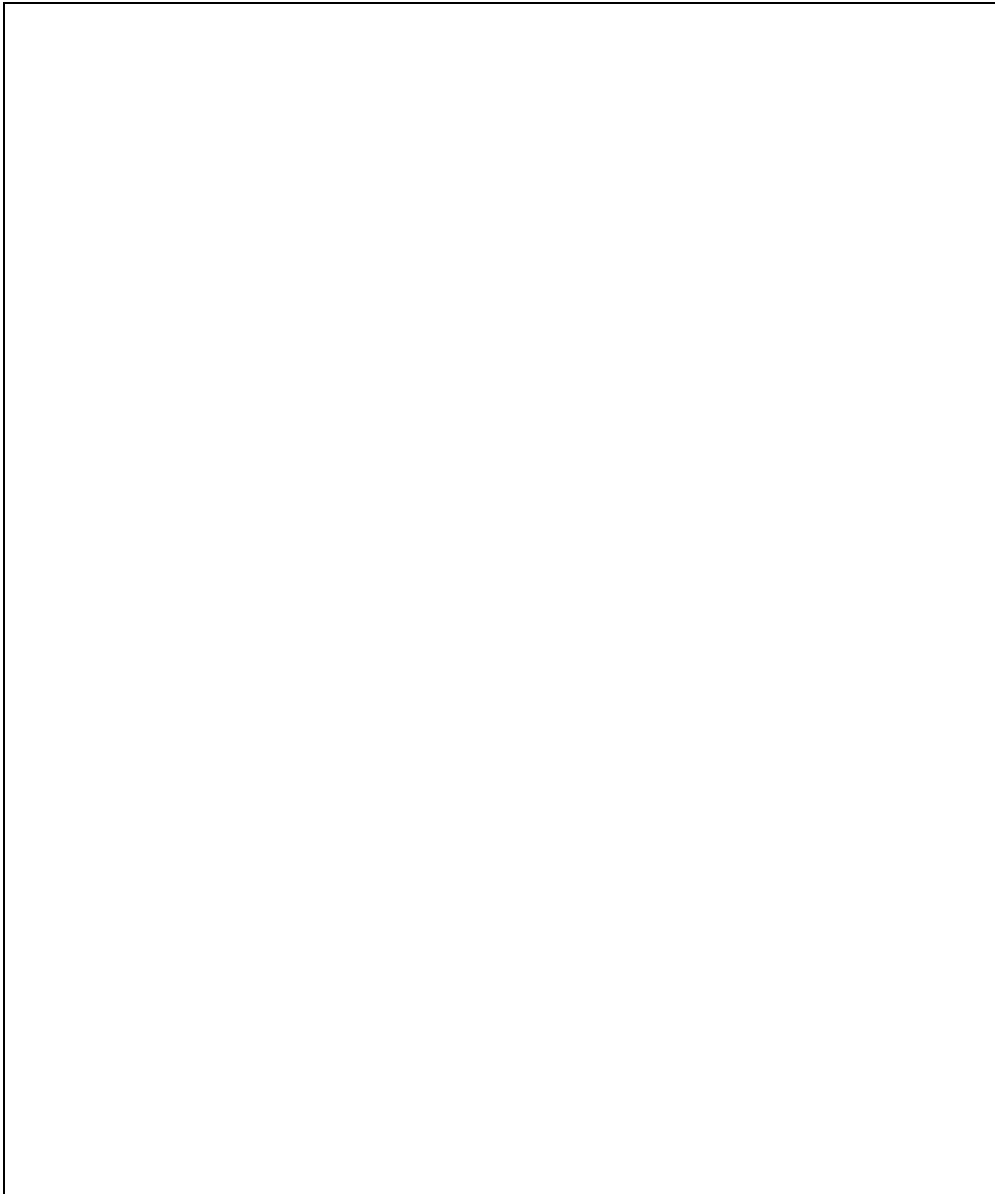
## 19. (continued)

- (c) A page on the sausage roll web site allows customers to enter their payment details for their order. When using the form, customers will need to submit the following information.

- Name
- Card number (16 digits)
- Card expiry (2 digits month, 2 digits year)
- Card CCV Number (3 digits)
- Order note (max of 500 characters)

Using this information, draw a wireframe design for the payment details form.

3



ADDITIONAL SPACE FOR ANSWERS

MARKS

DO NOT  
WRITE IN  
THIS  
MARGIN

ADDITIONAL SPACE FOR ANSWERS