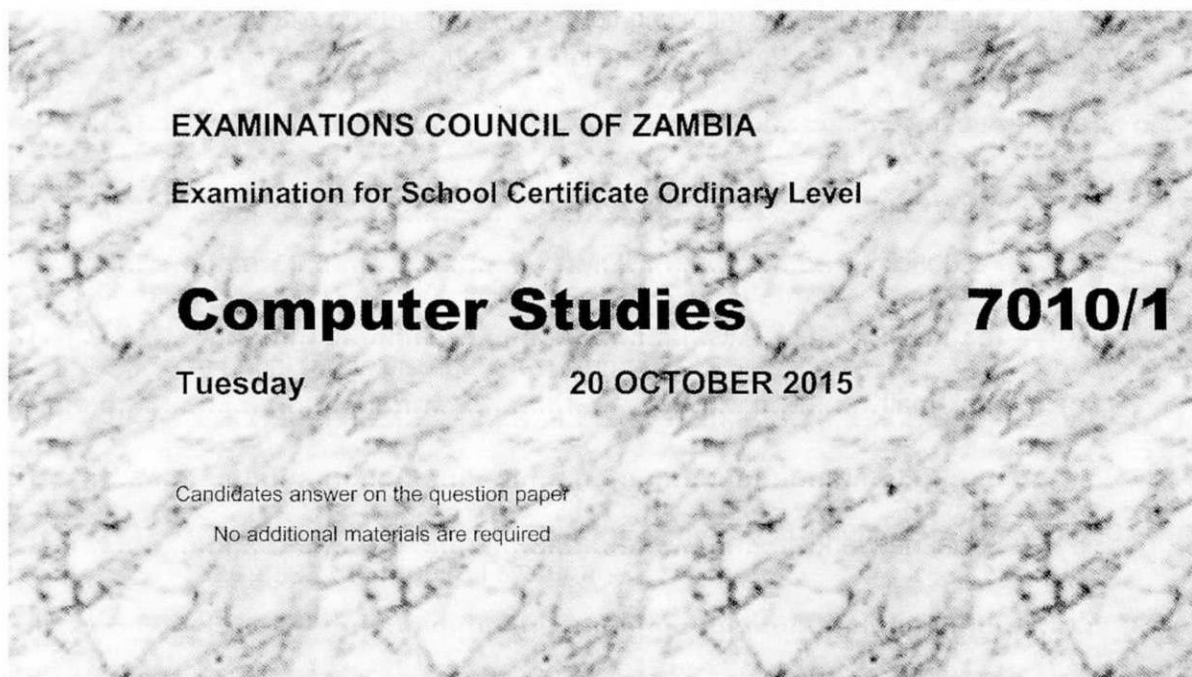


Candidate Name: _____

Centre Number				Candidate Number													



Time: 2 hours 30 minutes

Instructions to candidates

Write your name, centre number and candidate number in the spaces at the top of this page.

There are **13 questions** in this paper. Answer **all** questions.

Write your answers in the spaces provided on the question paper.

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Information for candidates

The number of marks is given in brackets [] at the end of each question or part question.

Cell phones are not allowed in the Examination Room.

FOR EXAMINER'S USE

- 1** Explain the meaning of the following computer terms, using examples where necessary:

- (a) Booting [2]
.....
- (b) Feedback [2]
.....
- (c) Junk mail [2]
.....
- (d) Social network..... [2]
.....
- (e) Process control..... [2]
.....
- (f) Pointer [2]
.....

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- 2** (a) Give **two** ways in which documents saved on a computer may be lost.

Way 1 [1]

Way 2 [1]

- (b) Describe **two** methods you can use to backup documents on a computer system.

Method 1 [1]

Method 2 [1]

- (c) State **two** methods you can use to restrict access to important documents on a computer system.

Method 1 [1]

Method 2 [1]

- 3 A firm intends to change its funds distribution system from manual to computerised. The Systems Analyst is studying problems associated with the current system.

(a) List **two** items the Analyst can include in the requirements specification of this project.

Item 1 [1]

Item 2 [1]

(b) Give **one** advantage of observation method when studying the current manual funds distribution system.

..... [1]

(c) Give **two** reasons why output formats are considered first before inputs when designing the required system.

Reason 1 [1]

Reason 2 [1]

- 4 Maphunziro Private School has installed an intranet. This network will enable lessons to be taught using video conferencing.

(a) What is an intranet?

..... [2]

(b) State **two** hardware devices necessary for video conferencing apart from the computer.

Hardware Device 1 [1]

Hardware Device 2 [1]

(c) Explain how each hardware device you stated in (b) can be used during video conferencing.

Use of Device 1 [1]

Use of Device 2 [1]

(d) Give **one** advantage of this method of lesson delivery to the

(i) pupils, [1]

(ii) teachers, [1]

(iii) school [1]

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- 5 (a) In the space below, draw **two** ring networks (each having 4 client computers) connected to one server. The server has a network printer attached to it.

[5]

- (b) Give **two** functions of a file server on the network. www.eczpastpapers.com

Function 1..... [1]

Function 2..... [1]

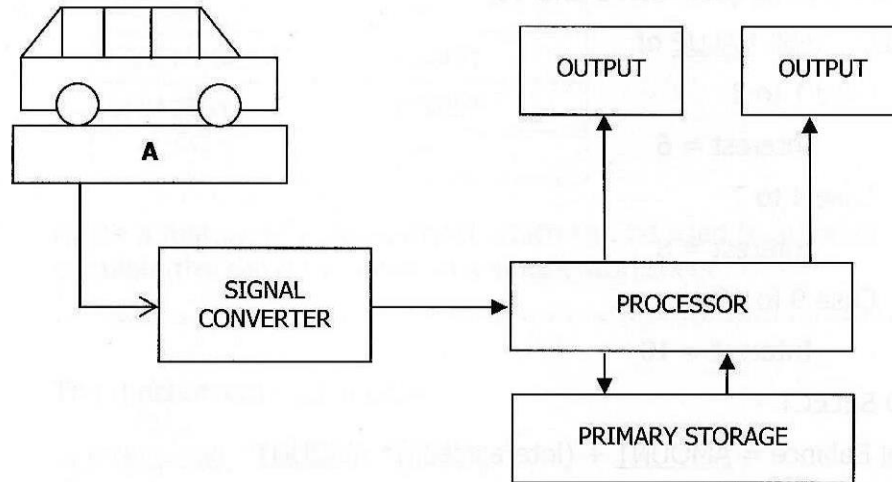
- (c) Identify **one** disadvantage for users stationed in either networks.

..... [1]

- (d) Give **one** advantage of this type of network to designers of newsletters.

.....
..... [1]

- 6 The diagram below shows a computerised weigh bridge designed by a Grade 12 pupil.



- (a) Name the sensor found in A.
 [1]
- (b) Explain the purpose of the signal converter in the circuit illustrated above.

 [2]
- (c) Name **two** output devices suitable for the circuit and give a reason for your answer.
- Output device 1..... [1]
- Reason..... [1]
- Output device 2..... [1]
- Reason..... [1]

- 7 Study the algorithm below and answer the questions that follow.

BEGIN

ENTER amount invested as Amount

ENTER a value (Between 1 and 10)

SELECT CASE VALUE of

Case 1 to 3

Interest = 6

Case 4 to 7

Interest = 8

Case 9 to 10

Interest = 10

END SELECT

Final Balance = AMOUNT + (interest/100)* AMOUNT

END

- (a) Estimate the final Balance if the following data is input

AMOUNT = 170

value = 9

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..... [2]

- (b) What is the purpose of this algorithm?

.....

..... [2]

- 8 Study the profitability and investment analysis strategic spreadsheet shown below and answer the questions that follow.

	A	B
1	AMOUNT	140
2	PROFITABILITY	PROFIT
3	STRATEGY	INVEST
4		

- (a) Name a feature of a spreadsheet which can be used to automatically calculate the same formulas on a similar worksheet.

..... [1]

- (b) The function entered in B2 is

= IF(B1>100, "PROFIT," "LOSS").

Complete the table below with the given values.

VALUE IN B1	RESULT IN B2
80	
200	

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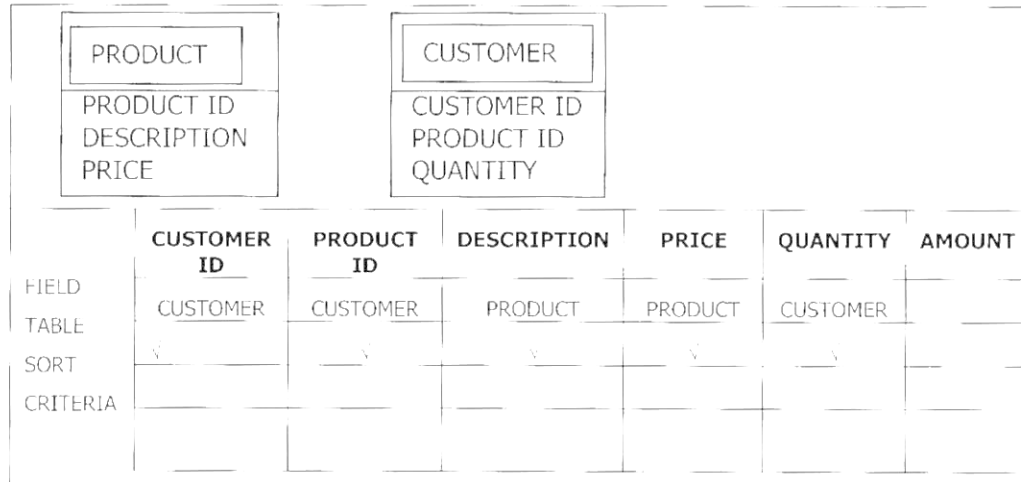
- (c) The function entered in B3 is
= IF (B2) = "PROFIT", "INVEST").

Write the results in the table below using the numbers given.

VALUE IN B1	RESULT IN B2	RESULT IN B3
200		
60		

[4]

- 9 The diagram below shows a database under construction.



- (a) From the diagram, list the tables designed.

Table 1 [1]

Table 2 [1]

- (b) Which field can be used to link the tables?

..... [1]

- (c) Inside the diagram above, draw a line to show a suitable table relationship.

[1]

- (d) Give **one** reason why tables are linked in a relationship.

..... [2]

- (e) Using the formula, "AMOUNT: [PRICE]* [QUANTITY]" and the information from table A and B below, complete table C. The first record has been done for you.

PRODUCT			CUSTOMER		
PRODUCT ID	DESCRIPTION	PRICE	CUSTOMER ID	PRODUCT ID	QUANTITY
PO3	MILLET	70	CO1	PO3	100
PO2	MAIZE	80	CO2	PO1	120
PO1	SORGHUM	90	CO3	PO2	70

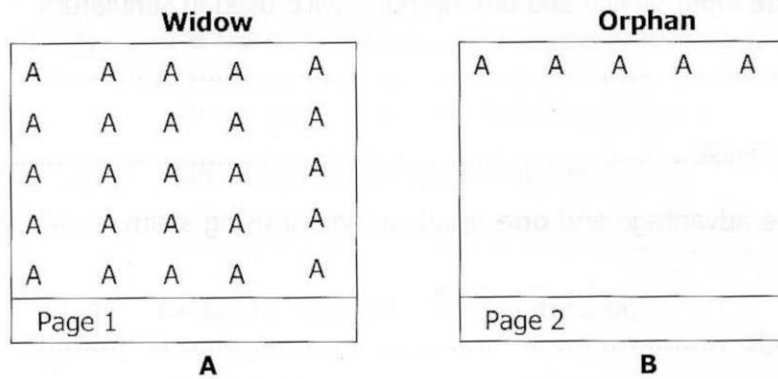
Table A

Table B

ORDER QUERY					
CUSTOMER ID	PRODUCT ID	DESCRIPTION	PRICE	QUANTITY	AMOUNT
CO3	PO2	MAIZE	80	70	5 600
CO1	PO3				

Table C

- 10 The two diagrams below show a document created using a word processor.



- (a) Give two features of a word processor.
- Feature 1 [1]
- Feature 2 [1]
- (b) State the type of alignment used in this document.
- [1]
- (c) Explain how you can get rid of the orphan page so that you only have one single page.
- [2]
- (d) State **two** ways in which a word processor saved document can be protected from changes by other users.
- Way 1 [1]
- Way 2 [1]
- (e) How can the document creator remind the users of the document about the violation of copyright law for a given word processor created pamphlet?
- [1]

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11 Pilots are usually trained using simulators.

(a) State **one** input device and one output device used in simulators.

Input device..... [1]

Output device..... [1]

(b) Give **one** advantage and **one** disadvantage of using a simulator to train pilots.

Advantage [1]

Disadvantage [1]

(c) Describe one simulated condition that the flight instructor can use in the training of pilots.

..... [1]

(d) Give **one** reason why training pilots in simulated environment is not always suitable.

..... [1]

12 A lodge has CCTV installed at the entrance of all rooms. www.eczpastpapers.com

(a) State **one** way in which CCTV has helped to manage the lodge business on the part of the

(i) Lodge owners..... [1]

(ii) Law enforcement workers [1]

(b) In the past, lodge owners complained of thefts. Give **two** ways in which CCTV can be used to minimise thefts.

Way 1..... [1]

Way 2 [1]

(c) Describe a situation in which CCTV cannot be relied upon.

..... [2]

(d) How can CCTV be used to infringe on the basic human

..... [1]

13 (a) List the programming constructs that can be used to

(i) execute one statement after another without branching,

..... [1]

(ii) execute a double branch statement,

..... [1]

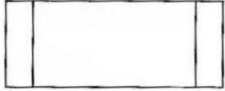
(iii) execute a multiple branch statement,

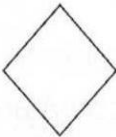
..... [1]

(iv) execute a group of statements several times at a go.

..... [1]

(b) State the meaning of each of the following flowchart symbols.

(i)  [1]

(ii)  [1]

(c) Study the compound assignment statement shown below where **A**, **B** and **TEMP** are variables.

BEGIN

A = 2

B = 3

TEMP = A

A = B

B = TEMP

PRINT A, B

END

(i) Give the output of variables **A** and **B**.

A = [1]

B = [1]

(ii) Explain the purpose of this programming construct.

..... www

..... [2]

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