Centre Number	Candidate Number	Candidate Name

NAMIBIA SENIOR SECONDARY CERTIFICATE

COMPUTER STUDIES ORDINARY LEVEL

4325/1

PAPER 1 2 hours 30 minutes

Marks 100 2020

No Additional Materials are required.

INSTRUCTIONS AND INFORMATION TO CANDIDATES

- · Candidates answer on the Question Paper in the spaces provided.
- Write your Centre Number, Candidate Number and Name in the spaces at the top of this page.
- · Write in dark blue or black pen.
- You may use a soft pencil for any rough work, diagrams or graphs.
- · Do not use correction fluid.
- Do not write in the margin For Examiner's Use.
- Answer all questions.
- The number of marks is given in brackets [] at the end of each question or part question.
- The businesses mentioned in this question paper are entirely fictitious.

For Examiner's Use

Marker Checker

This document consists of 17 printed pages and 3 blank pages.



Republic of Namibia
MINISTRY OF EDUCATION, ARTS AND CULTURE

gov	primary school in Ohangwena region received 20 computers from the rernment. The computers are for all learners in this school to have access to internet.	
(a)	Define the term internet.	
(b)	Identify and describe any services available over the internet that the school can utilise.	[2]
(c)	State two dangers of the internet to learners at this primary school if not properly controlled.	[4]
		[2]

2	A go (a)	overnment office is well secured with a computerised security system. Identify and describe two sensors that can be used in this security system.	
		Sensor 1	
		Sensor 2	
			[4]
	(b)	Identify one technique for communicating warning signals from the above system. Explain how this technique could be used.	
			[2]

a)	Define the term <i>nanotechnology</i> .
b)	Explain how the use of nanotechnology could be applied in administering of treatment of specific affected cells.

(CCTV can be used by a security company to carry out different operations.		E
(a) Identify any two uses of CCTV by a security company.		
		[0]	
		[2]	
(b) Explain how computer systems are used to control CCTV cameras by a security company.		
		[3]	

[2]

	6	
5	The managers of a hospital would like to network all computer devices in the hospital. There are five sections to include in the network:	
	Reception and Admission	
	Accounts	
	• Pharmacy	
	Treatments	
	Laboratory	
	(a) State two benefits of networking different sections of this hospital.	
	Benefit 1	
	Benefit 2	
	(b) What type of topology would be more suitable for this hospital. Give reasons for your answer.	[2]
		[3]
	(c) The hospital wishes to introduce an extranet system, explain how the data stored on the hospital network could be secured	

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D	around the country. They need to hold a series of planning meetings	
	Identify two hardware devices used to input data for a video conference and describe the type of data that each of the hardware device identified collects.	
		[4]

Srie	efly describe how an expert system can be created including the role of: rule base
-	knowledge base,
-	human machine interaction
-	inference engine.

n a	nalyst has been hired to undertake a feasibility study for a company that
	Is to fully computerise their information systems.
-	is to raily compatible their information systems.
a) [Explain the purpose of carrying out a feasibility study
a) [Explain the purpose of carrying out a feasibility study.
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a) [Explain the purpose of carrying out a feasibility study.
	Explain the purpose of carrying out a feasibility study. Explain why a system has a limited life span.

10	on 1 whi	a normal day's operations in a school, the accountant can email notification fees payments to parents and suppliers of some food items for the kitchen, lst playing music at a low volume. At the same time, he can be updating mer's accounts records	
	(a)	Identify the type of operating system used on the accountant's computer. Give a reason for your answer.	
			[2]
	(b)	The accountant sends a 58 page document for printing whilst he is printing the fees statements for all learners.	
		Explain how buffering can be used to handle the printing.	
			[0]
	(c)	Explain the purpose of the following utility software:	[3]
		Hardware drivers	
		Disk defragmenters	
			[2]

- 11 Write an algorithm for a program to calculate and output a total price for purchasing tickets for a group of adults and children. The program should
 - ask for the number of adults and the number of children.
 - calculate the total price where adult tickets are ND50 and child tickets ND25.

output the total price calculated or ND300 for all totals above ND300.

[6]

			Employe	ees table	<u>,</u>	
em	ployeeld	emp	loyeeName	1	/eeBoss	locationId
1	_	Rein		Hendrik		3
2		Saka	ria	Shimpa	anda	2
3		Lydia	l	Roddy		3
-		ocations				
	ationId		IocationNaı Oshakati	me		
2						
3			וואמווט	ı		
10			Rundu Okahandia			
			Okahandja			
4	Use the Em	ployees	Okahandja Oshikango	ı tables s	shown abo	ve to explain how
(i) (a relationshi	ip is use	Okahandja Oshikango and Location d to link two of	database	e tables.	
(i) (ii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iiii) (iiiiiii) (iiiiiiii	a relationshi	me of th	Okahandja Oshikango and Location d to link two of	y in the L	e tables.	table.

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(iv)	Identify the field in each table that would be most suitable to form the relationship between the two tables. Give a reason for your answer.	
		[2]

(a) Logic gate c				
(b)				
Truth table	1			
В	С	D	A	

the	can be of benefit to an organization.	
	plain the differences between the following pair of spreadsheet features.	
	plain the differences between the following pair of spreadsheet features. Absolute referencing and relative referencing	
(a)		
(a)	Absolute referencing and relative referencing	
(a)	Absolute referencing and relative referencing	
(a)	Absolute referencing and relative referencing	
(a)	Absolute referencing and relative referencing	
(a)	Absolute referencing and relative referencing	
(a)	Absolute referencing and relative referencing	

	16	
16	State the four benefits of using robots.	For Examiner's Use
	[4]	

	how your working.
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in	tate two advantages of using a compiler over an interpreter during program uplementation.
••	

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