

CICT PART I SECTION 1

COMPUTER APPLICATIONS - PRACTICAL

MONDAY: 23 November 2020.

Time Allowed: 3 hours.

Answer ALL questions. Marks allocated to each question are shown at the end of the question.

Ensure that you are provided with a computer, a flash disk and printing materials.

Additional instructions:

- 1. Save all your work in the flash disk provided and in a folder bearing your registration number.
- 2. Work on each question should be saved in the subfolder contained in the folder created in number 1 above. The name of the subfolder should correspond to the question number.
- 3. Your registration number MUST appear as a header on every printout containing your answers.
- 4. You must indicate the number of the question answered on the header created in number 3 above.

Note: The information in numbers 1-4 above must be computer generated.

At the end of the examination duration, you should hand in to the invigilator(s):

- (a) The flash disk containing your work.
- (b) All printed work.
- (c) All unused printing paper(s).

OUESTION ONE

Create a word processor document named "Question one".

Use Question One document to key in solutions to questions (a) to (b) below:

(a) Describe the term "contextual taboas used in word processing applications.

(2 marks)

(b) Differentiate between a hanging indent and a first line indent, as used in word processing.

(4 marks)

(c) Using Question One document, key in the text below:

THE MATHEMATICAL EQUATION

To find a sum of binomial expression of the form $(a + b)^n$ can be difficult for instance.

$$(a+b)^n = (a+b) x (a+b) x (a+b) x (a+b)...$$

So if a = 1 then this is as simple as an expansion of a sum shown below;

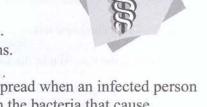
$$(1+x)^n = 1 + \underline{nx} + \underline{n(n-1)} x^2 + ...$$

(5 marks)

TUBERCULOSIS

A potentially serious infectious bacterial disease that mainly affects the lungs.

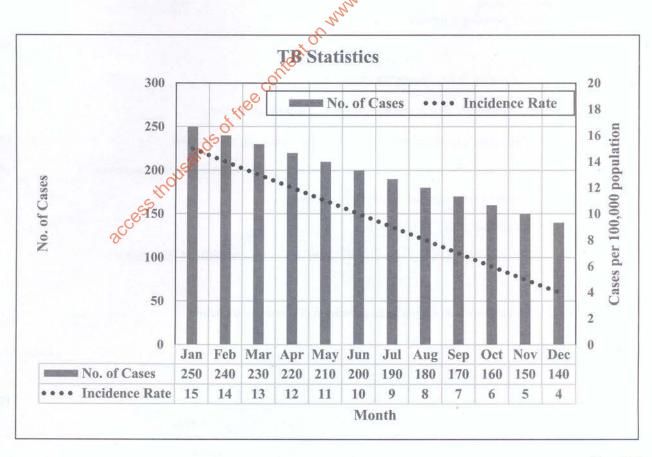
- Partly preventable by vaccine.
- Treatable by a medical professional.
- Spreads by airborne droplets.
- Requires a medical diagnosis.
- Lab tests or imaging always required.
- Medium-term: resolves within months.



he bacteria that cause tuberculosis (TB) are spread when an infected person coughs or sneezes. Most people infected with the bacteria that cause tuberculosis don't have symptoms. When symptoms do occur, they usually include a cough (sometimes blood-tinged), weight loss, night sweats and fever.

TB Treatment

If you have **TB infection**, you may need medicine to prevent getting **TB disease** later. This is called "preventive" treatment. Take the drugs exactly as you are told. If you stop taking the drugs too soon, you can become sight again. If you do not take the drugs correctly, the germs may become difficult to treat with those drugs. It takes at least six months and possibly as long as one year to kill all the TB germs.



(6 marks)

	(ii)	Insert the comment "World Health Organisation Data" at the end of the document.	(1 mark)
	(iii)	Insert a footer showing page numbers.	(1 mark)
	(iv)	Find and replace the word "infected" with "sick" word in the entire document.	(1 mark)
Save	Question	One document and print a copy of Tuberculosis document.	
		The second of the second second second	Total: 20 marks)
	te a word	processor document named "Question Two".	
Use	Question T	Two document to key in solutions to questions one (a) and (b) below:	
(a)	Expla	in the functions of the following tools used in desktop publishing software:	
	(i)	Blend.	(2 marks)
	(ii)	Eyedropper.	(2 marks)
(b)	Highli	ght the effect of the following characteristics of a graphics item in a desktop publishing gra	phic:
	(i)	Colour depth.	(1 mark)
	(ii)	Resolution.	(1 mark)
(c)	variou	ne you are part of a music group that has been practicing and is cady to play some live is clubs. The members have consulted you to design a letterhead or your group which they could owners introducing themselves.	performances in
	(ii)	 Name of your group Email address for the group Telephone number Website – place it against the right margin Two horizontal lines for effect Change top margin of \$\frac{1}{2}\frac{1}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}1	(7 marks) ith the following
		Save the publication as "DVD cover" and print a copy.	(7 marks)
Save	and print	Question Two document.	(7 marks)
	STION T	HREE processor document named "Question Three".	
Use (Question T	Three document to key in solutions to questions three (a) to (c) below:	
(a)	Explai	n the term referential integrity as used in database management systems.	(2 marks)
(b)	Disting	guish between the terms "order by" and "group by" as used in database management system	s. (2 marks)
(c)	Highli	ght the use of "#" and "!" in database management systems.	(2 marks)
	Save a	nd print Question Three document.	CT12 Page 3 Out of 7

Using a database application program, create a database called "Dependencies". (d) (i)

(1 mark)

- Using "Dependencies" database created in (d) (i) above, demonstrate the difference between functional (ii) (2 marks) dependency and transitive dependency.
- Kazi Furnitures has the following data in their database: (e)

FCode	FName	
F01	Stool	
F02	Table	
F03	Sofaset	

Articans

ACode	AName
A011	James
A012	Amos
A016	Simon
A020	Ann

A020		PAIIII			
. 1					
Products PCode	FCode	ACode	Cost	Status	www.freekcsepastpapere
P1	F01	A011	3500	Sold	ers
P2	F02	A011	5400	Sold	200
P3	F03	A011	20000	Sold	Sil
P4	F03	A012	25000	Sold	2000
P5	F01	A012	3200	Sold	رچي ۱
P6	F02	A012	5200	Sold	3,40
P7	F03	A012	23000	Sold	4100
P8	F03	A016	18000	Sold	I'M'
P9	F01	A016	4000	Sold	Mr. The state of t
P10	F03	A011	25000	Ready <	

Sales.

Datesold	Pcode	Selling-price
3/1/2020	P1	4000
3/1/2020	P2	6000
4/1/2020	P3	25000
4/1/2020	P4	26000
5/1/2020	P5	3500
8/1/2020	P6 ***	5500
8/1/2020	PZS	25000
9/1/2020	C 8	20000
10/1/2020	7 P9	5000

(2 marks) Create above tables in the Dependencies database created in (d) (i) above. (i)

(2 marks) Create relationships between the tables created in (e) above. (ii)

(4 marks) Input data using appropriate forms. (iii)

Create a report to show payments paid to each artisans for the month of January at the rate of 5% of the selling (f) (2 marks) price.

(1 mark) Calculate the profit made by the organisation in a report. (g)

Save Dependencies database and print reports created in (f) and (g) above.

(Total: 20 marks)

QUESTION FOUR

Create a word processor document named "Question Four".

Use Question Four document to key in solutions to question (a) below:

Describe the following concepts in context of presentation application: (a)

> (2 marks) Animation groupings. (i)

> (2 marks) Bulleted list slide. (ii)

> (2 marks) (iii) Content slide.

Save Question Four document and print.

Using a presentation program, create a presentation called "Question Four".

Create a master slide containing the text below: (i)

Information Systems: Creating Business Value

(1 mark) by. Dr. David

Add a text box at the footer of master slide in (b) (i) above containing the text below: (ii)

(1 mark)

Create a slide with the information below: (iii)

and store data and information.

Apply logic to make decisions.

Retrieve/display and send information.

The slide containing the details below the technology categorian technology categorian.

(2 marks)

Add another slide containing the details below: (iv)

Information technology categories

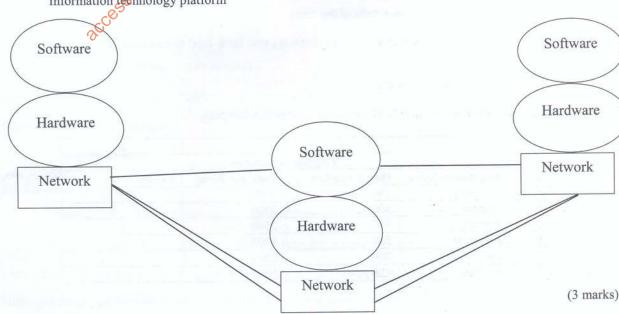
Hardware: Tangible components

Software: Intangible components

Network technology: Increases the power of information technology by allowing the sharing of resources. (2 marks)

Insert a new slide and design it with the graphics as shown below: (v)

Information technology platform



(vi) Add an image of your choice to the slide in (b) (v) above and place it on the far left top corner.

(2 marks)

(vii) Add a wipe transition effect to all slides.

(2 marks)

(viii) Set the slide show to loop continuously until "ESC".

(1 mark)

Save Question Four presentation and print all slides on one A4 sized paper.

(Total: 20 marks)

QUESTION FIVE

Create a word processor document named "Question Five".

Use the word processor document to key in solutions to question (a) and (b) below.

(a) Explain the following error messages generated by a spreadsheet:

(i) ###

(2 marks)

(ii) #NAME?

(2 marks)

(b) Suggest suitable type of charts for a sales person to present sales trends in a spreadsheet.

(2 marks)

Save Question Five document and print.

(c) A motor vehicle dealer sells cars to customers on credit. The credit terms require the customer to make a deposit of 25%. The balance after the total deposit is paid in monthly installments over a period of 24 months without interest.

The table below shows the customers' details and their credit values:

	A	В	C	D	E
1		Cı	istomers Deta	ails M.	
2	Name	Car value (Sh)	Deposit	Balance	Monthly installment
3	Andrew	350,000		OC.	
4	Joseph	400,000	Č		
5	Michael	300,000	, ter		
6	Ann	250,000	COL		
7	Violet	280,000	00		Nest Top Control
8	Joyce	270,000	1/10		

Required:

(i) Create a workbook named "Car credit sales" and enter the data as shown above.

(2 marks)

- (ii) Use an appropriate formula to calculate values for the deposit, balance and monthly installment for every customer. (3 marks)
- (iii) Insert borders on all entries of the sheet.

(1 mark)

(iv) Open a new sheet and show the formulas you have used to calculate the deposit, balance and monthly installment.

Save the worksheet as "formulas".

(1 mark)

(d) The table below shows details of engineers salaries in a company.

	A	В	C	D		
1	Engineers Salaries					
2	Engineers Name	Hours worked	Rate per Hour	Salary		
3	Lundwig	180	1000			
4	Josphat	300	2000			
5	Benson	500	2500			
6	Christine	200	1500			
7	Job	300	2500			
8	Hezbon	120	2000			

Required:

- Create a worksheet named Engineers in the workbook you created in (c) above. Enter the data shown on (i) the table above.
- (ii) Given that salary = hours worked multiplied by rate per hour, calculate the salary for every engineer.

(2 marks)

(iii) Add the following engineers to the worksheet:

> Eng. Maranga 500 hours 3000 per hour Eng. Josphine 600 hours 3500 per hour

- (iv) Calculate the total number of hours worked and the total amount of salary paid to all engineers. (2 marks)
- Create a pie chart displaying the names of engineers and the hours worked. (1 mark) (v)

Save "Car credit sales" workbook and print "Engineers" worksheet.

(Total: 20 marks)

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