



**DEPARTMENT OF
EDUCATION**

**UPPER SECONDARY
SCHOOL CERTIFICATE
EXAMINATIONS**

**INFORMATION
COMMUNICATION
TECHNOLOGY**

Tuesday

15 October 2013

Time allowed:

2 hours and 30 minutes

(11:00am – 1:30 pm)

NO EXTRA TIME

(NO OTHER TIME)

Candidates are advised to
fully utilize the allocated time

ICT

INSTRUCTIONS TO CANDIDATES

To be read by the external invigilator to all candidates

1. The **subject code** for **Information Communication Technology** is **16**
2. There are **14** printed pages in the question booklet and **8 printed** pages in the answer booklet. There are two parts in this paper. Answer all questions.

Part A: Multiple Choice Questions - 30 marks

This section will be electronically marked.

All answers to the Multiple Choice Part **MUST** be answered on the **ELECTRONIC ANSWER SHEET** provided.

Carefully following the instructions, fill in your Candidate Information and Subject Information.

If you make a mistake, rub the shading out completely using an eraser and shade in your alternative clearly.

Part B: Short Answer Questions - 70 marks

Write down your name, your school name and complete your 10 digit candidate number on the Part B Answer Sheet Provided.

3. You are required to write the correct answer in the space provided.
4. Calculators may be used.
5. Answer all questions on the answer sheet. Answers on any other paper including rough work paper and the question paper will not be marked.
6. Correction fluid is not allowed on the answer sheet. Where you have made an error, cross out all the working and start on a new line.

PENALTY FOR CHEATING OR ASSISTING TO CHEAT IN NATIONAL EXAMINATIONS IS NON-CERTIFICATION.

DO NOT TURN OVER THE PAGE

AND DO NOT WRITE

UNTIL YOU ARE TOLD TO START.

PART A: MULTIPLE CHOICE

(QUESTIONS 1 to 30)

30 MARKS

Answer each question by shading in with HB pencil, the circle directly under the correct alternative A, B, C or D.

If you make a mistake, rub it out completely using an eraser rubber and shade the correct answer on the ELECTRONIC ANSWER SHEET.

QUESTION 1

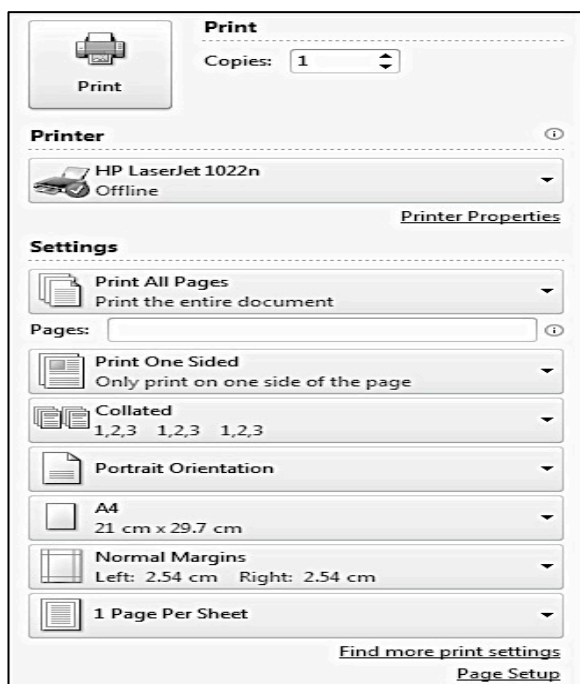
Which of the following storage device is a removable or external device?

- A. Random Access Memory (RAM)
- B. Read-only Memory (ROM)
- C. Processor (CPU)
- D. Memory Stick (flash drive)

QUESTION 2

Use Figure 1 MS Printing Menu to answer the question below.

Printing a document means transferring softcopy on screen to hardcopy on paper.



To print specific pages you will enter the pages numbers next to _____.

- A. Copies
- B. Printer
- C. Pages
- D. Collated

Figure 1. MS Printing Menu snapshot

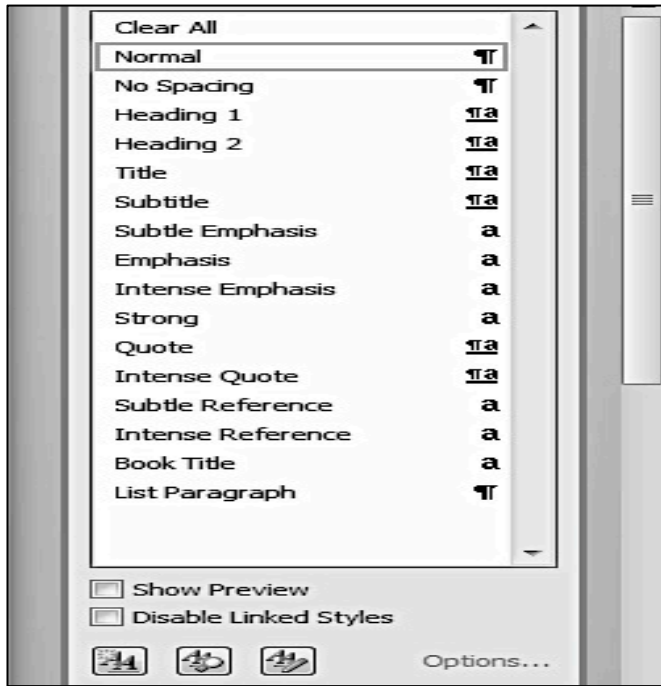
QUESTION 3

Which of the following information type on a webpage will take more time to download?

- A. Text
- B. Graphics
- C. Audio
- D. Video

QUESTION 4

Consider Figure 2 illustrating one of the predefined formatting options below. Microsoft word uses many predefined document-formatting options.



The list in Figure 2 is known as

- A. Styles
- B. Fonts
- C. Paragraphs
- D. Clipboards

Figure 2. MS Formatting options snapshot

QUESTION 5

Figure 4 shows how a user can set a password on a document.

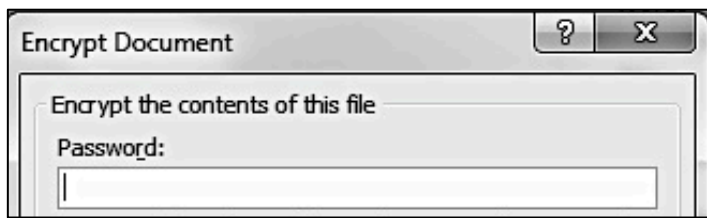


Figure 3. MS Encrypt Document dialog snapshot

What is achieved by setting a password on a document?

It prevents/recovers

- A. viruses from infecting the document.
- B. unauthorized users from reading and modifying the document.
- C. loss of the document due to media failure.
- D. the document from disaster.

QUESTION 6

Today information is transferred between computers on a Network or Internet. There is a possibility of confidential information being intercepted and its contents being exposed to unauthorized entities or users. To prevent information being read by unauthorized entities or users, we use _____ techniques.

- A. Biometric
- B. Password
- C. Encryption
- D. Antivirus

QUESTION 7

Excel worksheets consist of rows and columns that are labelled with

- A. Alphabets and numbers
- B. Numbers and alphabets
- C. Numbers and numbers
- D. Alphabets and alphabets

QUESTION 8

Figure 4 appears when trying to copy worksheet “feb”.

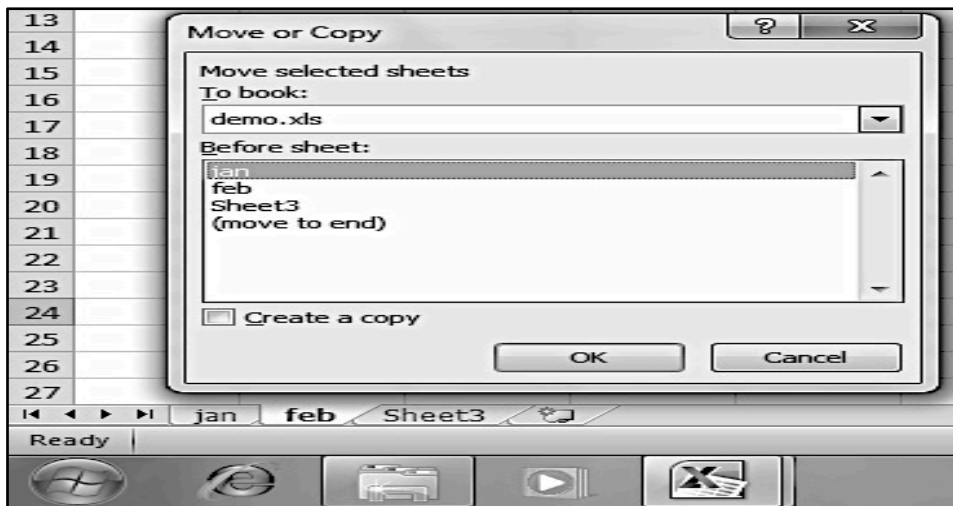


Figure 4. MS Copy and Paste dialog snapshot

To copy the worksheet to a different workbook

- A. Click on the “down arrow” button next to demo.xls
- B. Click “move to end” under before sheet
- C. Click jan under before sheet
- D. Click the “square box” next to “create a copy”.

QUESTION 9

Data from other applications can be imported to an excel worksheet. To carry out the import process one would select the data option from the menu bar as shown in figure 5.

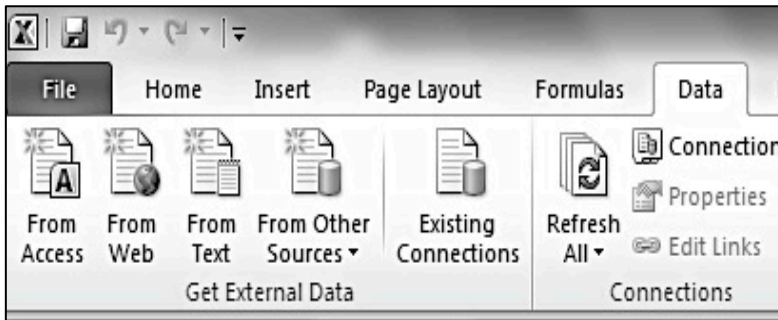


Figure 5. MS Data option menu bar snapshot

What is the option the user will select to import data from Microsoft Database?

The option selected will be from the

- A. Existing connections.
- B. other sources.
- C. Web.
- D. Access.

QUESTION 10

Figure 6 shows the available templates to design a database.

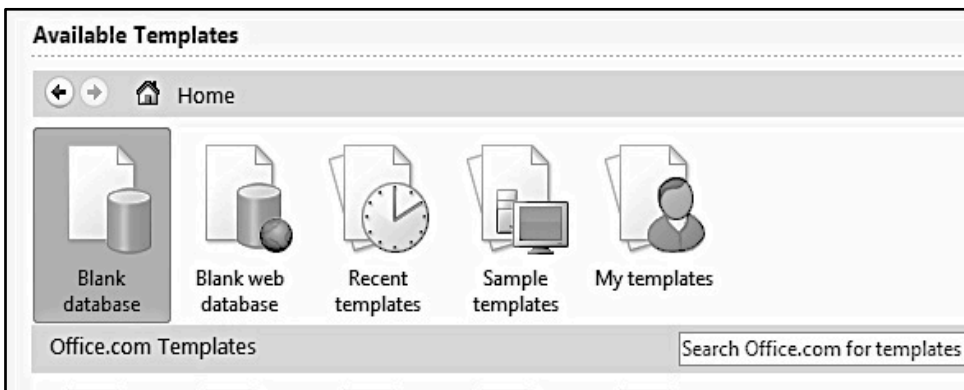


Figure 6. MS Database Templates snapshot

Which template would you select in order to design a new database without any assistance?

- A. My templates
- B. Sample templates
- C. Blank database
- D. Recent templates

QUESTION 11

Data can be extracted from two tables in a query only if a _____ exist.

- A. primary key
- B. query
- C. foreign key
- D. relationship

QUESTION 12

Figure 7 illustrates the field names and data types.

Field Name	Data Type
ID	AutoNumber
name1	Text
salary	Text

Figure 7. MS Field name and data type snapshot

What would be most appropriate data type for field salary?

- A. Currency
- B. Text
- C. Number
- D. Memo

QUESTION 13

Which of the following Microsoft Access Database object is mainly used for inputting data?

- A. Table
- B. Query
- C. Report
- D. Form

QUESTION 14

Internet Service Providers connect other organizations and individuals to the Internet.

Which of the following computer retailing companies is an Internet Service Provider in PNG?

- A. Pacific
- B. Able
- C. Global
- D. Datec

QUESTION 15

The production of a professional quality publication goes through various steps with the first step being

- A. Layout Publication
- B. Collect appropriate resources
- C. Plan Publication
- D. Correct errors

QUESTION 16

Figure 8 shows a Publication sheet from Microsoft Publisher.

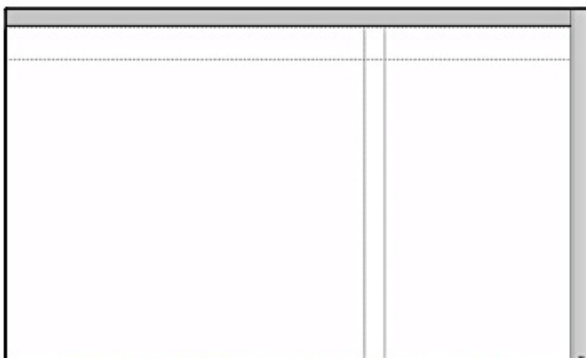


Figure 8. MS Publisher sheet snapshot

The top section of the publication sheet is know as the

- A. Margin.
- B. Body.
- C. Header.
- D. Ending.

QUESTION 17

Which of the following lists contain only graphic file formats?

- A. PNG, GIF, JPEG B. GIF, JPEG, DIF
C. JPEG, TIFF, DIF D. TIFF, DIF, PNG

QUESTION 18

Which of the following data protection mechanisms prevents unwanted data from entering or exiting a network?

- A. Backups B. Antivirus
C. Firewalls D. Trojan horses

QUESTION 19

Operating systems software controls and monitors the operation of a computer system.

Which of the following alternative can be identified has operating system software?

- A. Microsoft Access B. Microsoft Publisher
C. Microsoft PowerPoint D. Microsoft Windows 7

QUESTION 20

Which of the following protocols is responsible for transferring a web page on the Internet?

- A. DNS B. POP C. SMTP D. HTTP

QUESTION 21

In a one-to-one relationship, the primary key of one table must appear _____ time(s) in the other table.

- A. 0 B. 1 C. 2 D. 3

QUESTION 22

If a textbox on a form displays data from a field in a table, it is referred to as

- A. Bound. B. Unbound. C. Control. D. Uncontrol.

QUESTION 23

Which of the following query wizards will create a Select query from the fields you pick in Microsoft Access?

- A. Simple Query wizard B. Cross Query wizard
C. Find Duplicate Query wizard D. Find Unmatched Query wizard

QUESTION 24

Figure 9 illustrates table 1 in design view.

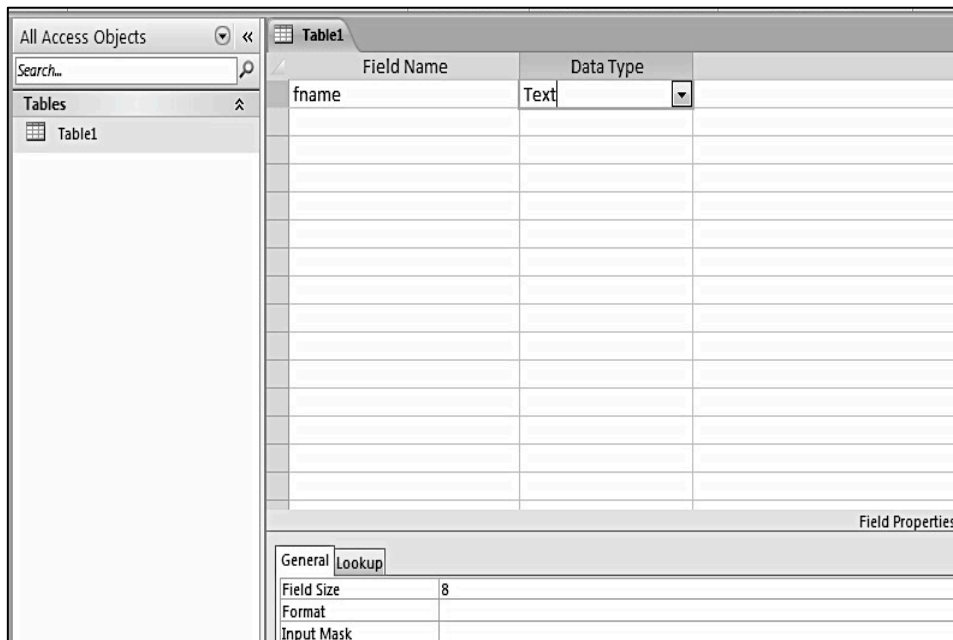


Figure 9. MS Access Tables snapshot

When the design is complete, a user enters ‘Thurstonsen’ as fname.

What will happen after the user enters fname?

- A. Access displays an error warning but accept fname entered
- B. Access accepts fname entered
- C. Access only accepts the first 8 characters only
- D. Access displays an error warning

QUESTION 25

In Internet terminology, what does the acronym HTTP stands for?

- A. Happytext transport Protocol
- B. Hypertext transfer Protocol
- C. Hypertext transmission Protocol
- D. Hypertext transaction Protocol

QUESTION 26

Hyperlinks in a webpage can be created using

- A. text, images and email address.
- B. filenames, program names and images.
- C. email address, program name and text.
- D. text, database and image.

QUESTION 27

Hyperlinks to a presentation can link to a

- A. computer.
- B. Database program.
- C. webpage.
- D. network.

PART B: SHORT ANSWER

(QUESTIONS 31 to 40)

70 MARKS

For each question, work out the answer and write it in the space provided on the ANSWER BOOKLET.

QUESTION 31

- i. List three different classifications of computers. (3 marks)
- ii. List one input device and one output device. (2 marks)
- iii. In the main board illustrated in Figure 10, list the components represented by letters **a** and **b**. (2 marks)

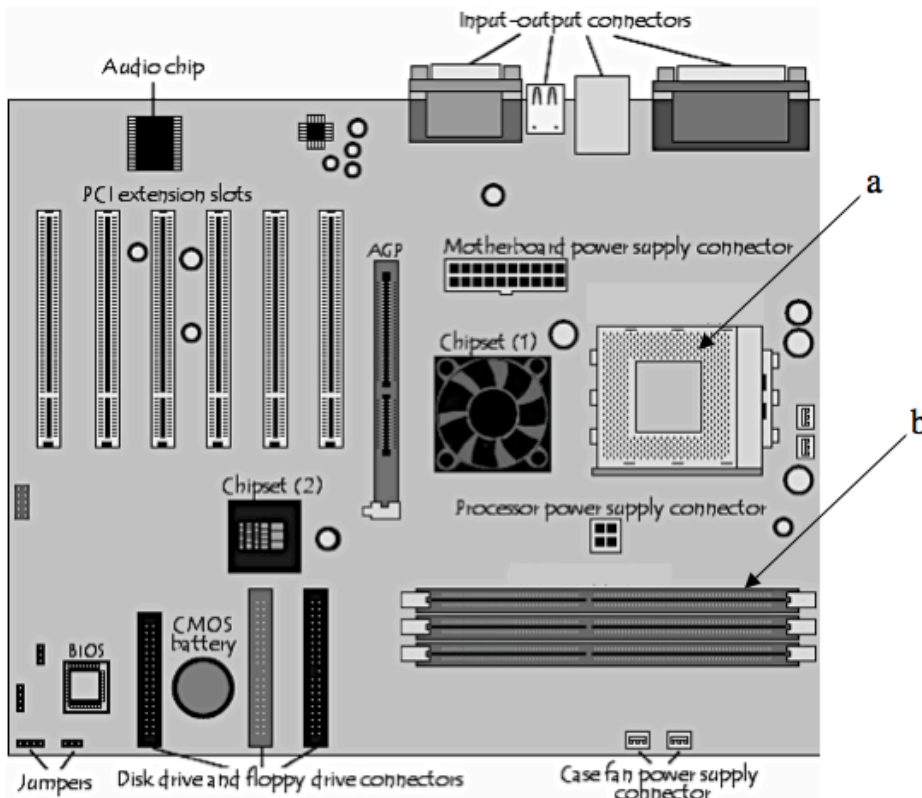


Figure 10. Main board snapshot

QUESTION 32

- i. Consider Figure 11 showing different document views in MS Word to answer questions **a**, **b** and **c** below.

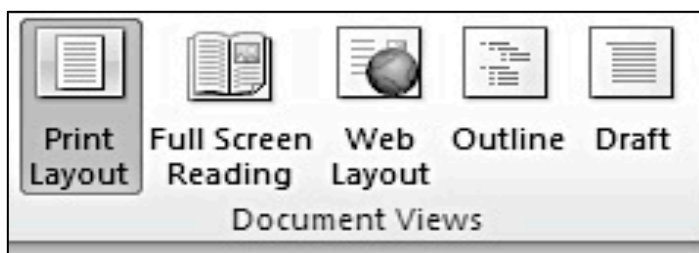


Figure 11. MS Word Document views snapshot

- a. Which view shows a document without the menu bar? (1 mark)
- b. Which view show a document on screen as it will be like when printed? (1 mark)
- c. Which view will show how a document will appear on the Internet? (1 mark)
- ii. Consider Figure 12 illustrating different proofing buttons in MS Word. Write the letters representing the labels next in their correct spaces on the Answer Sheets.

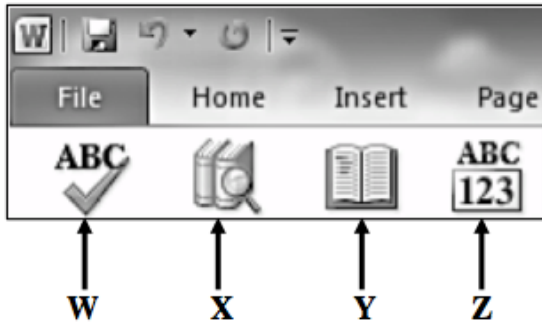


Figure 12. MS Word Proofing buttons snapshot

- a. Which button is used to check for words with similar meanings? (1 mark)
- b. Which button is used to check for spelling errors? (1 mark)
- c. Which button is used to count the number of words in a document? (1 mark)
- d. Which button is used to refer to reference materials? (1 mark)

QUESTION 33

When a user identifies or presents its credentials to a computer system or network, the information provided to identify the user is classified under “what the user has”, “what the user knows and “what the user is”.

- i. List two items that can come under the classification “what the user has”. (2 marks)
- ii. Which two information that can come under the classification “what the user knows”. (2 marks)
- iii. List what can be used in the classification “who the user is”. (1 mark)
- iv. Recent laws passed by parliament to stop illegal copying of local music are an example of _____ laws. (1 mark)
- v. What is the term that refers to the procedures that ensure data will be made available even if the computer system is destroyed. (1 mark)

QUESTION 34

Consider Figure 13 that illustrates an Excel worksheet with a function entered in cell F3.

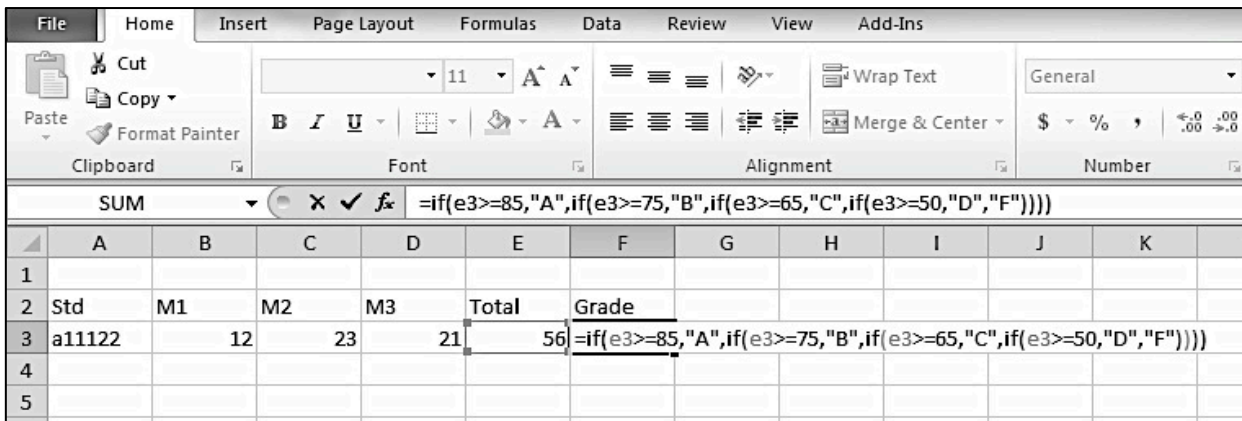


Figure 13. MS Excel Snapshot

- i. What is the name of the function? (2 marks)
- ii. What is the function trying to calculate? (1 mark)
- iii. What would be the result of the current cell (i.e. cell F3). (1 mark)
- iv. What would be the result if the value in E3 was 44? (1 mark)
- v. What was the function used in cell E3 to get the total marks? (2 marks)

QUESTION 35

Refer to Figure 14 that shows two tables in a relationship.

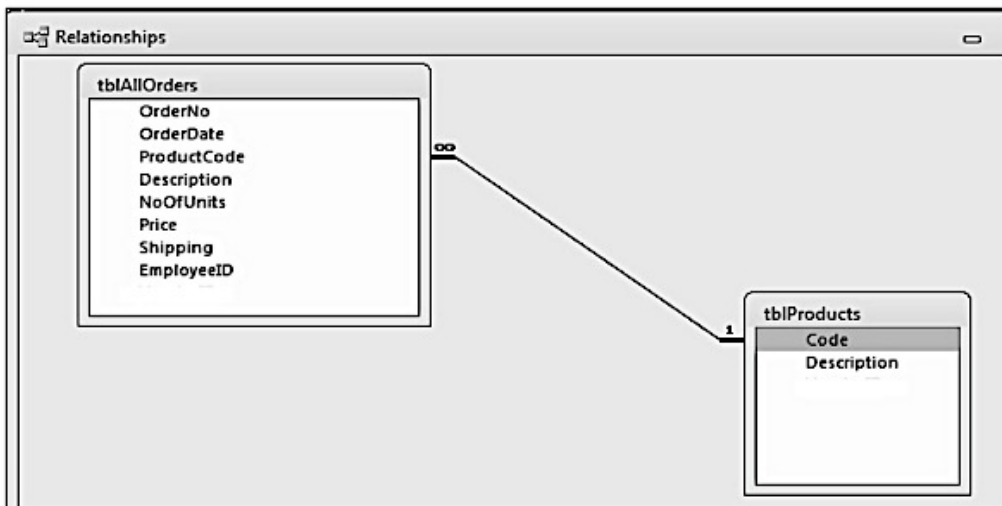


Figure 14. MS Access Table Relationship snapshot

- i. What is the type of relationship shown in the figures? (1 mark)
- ii. What are the two common fields in the above relationship? (2 marks)

- iii. Complete the description of the above relationship. “For (a)_____ Product, there are (b)_____ or (c)_____ orders. (3 marks)
- iv. In Microsoft Access, what menu option is selected to access the relationship window shown in figure 13? (1 mark)

QUESTION 36

- i. In Desktop Publishing, many desktop-publishing software are used.
List three desktop publishing softwares. (3 marks)
- ii. Tables are used in Desktop Publishing when the user want to display information in (a)_____ and (b)_____. (2 marks)
- iii. The two important aspects of presentation design are (a)_____ and (b)_____. They affect how information is shown on screen and how the audience will interact with the presentation. (2 marks)

QUESTION 37

- i. Computers form a network when they are linked or connected and share information.
List the three hardware devices that link or connect computers in a Local Area Network (LAN). (3 marks)
- ii. Applications softwares are used by end users for everyday activities.
Name a general-purpose application software and a specialized application software. (2 marks)
- iii. Wireless medium of communication is now popular in PNG as more people use smart phones and laptops.
List two connection methods for wireless devices. (2 marks)

QUESTION 38

Figure 15 shows Query 1 in Design view.

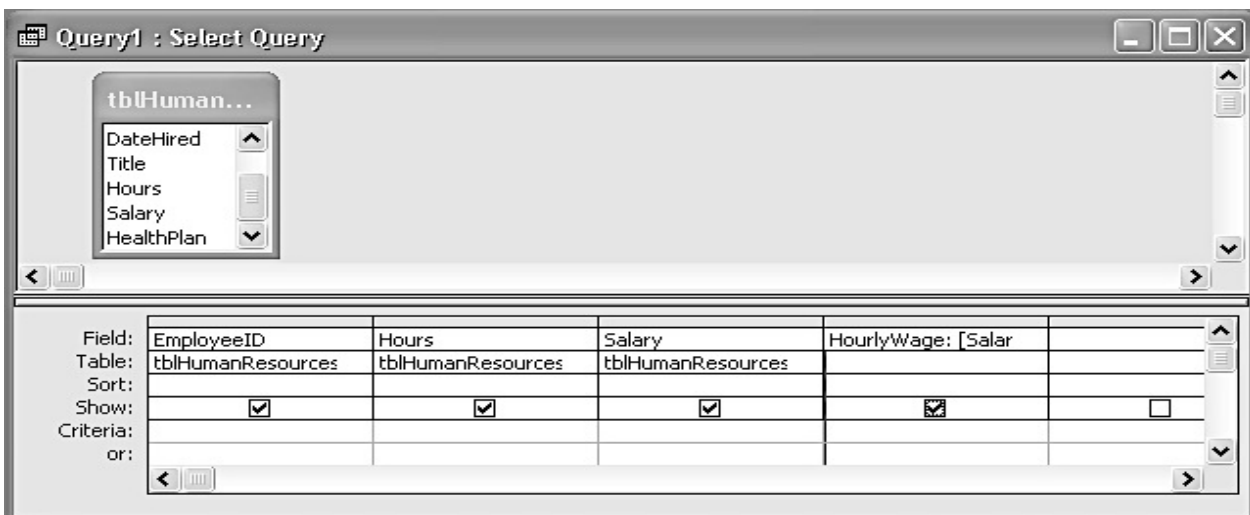


Figure 15. MS Access Design View snapshot

- i. Which four fields that are used in Query 1. (4 marks)
- ii. Name the table(s) that are/is used in Query 1. (1 mark)
- iii. List one of the fields from the main table that is not used in query 1. (1 mark)
- iv. What is the term used to describe the field “HourlyWage”. (1 mark)

QUESTION 39

i. Consider Figure 16 that illustrate the Print Dialog box with its sections labelled **1, 2, 3, 4** and **5**. Write only the number labeling the correct sections on your Answer Sheet.

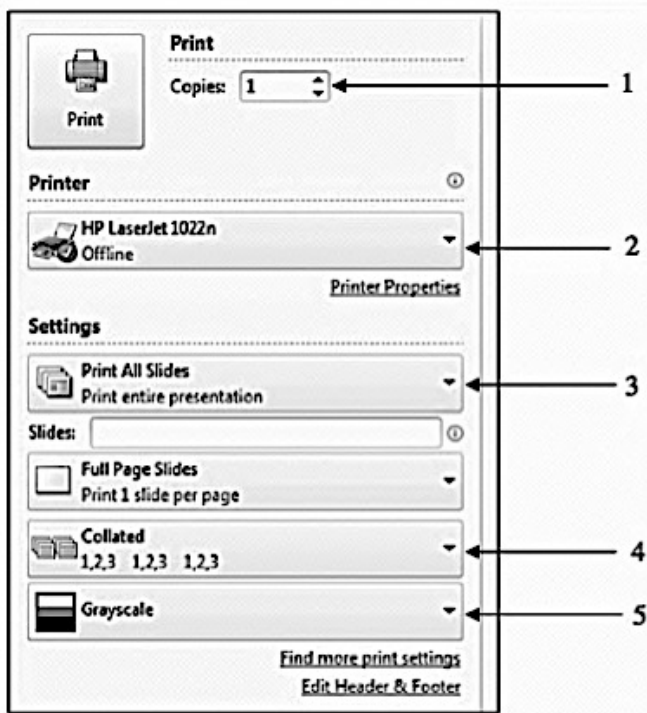


Figure 16. MS PowerPoint Print Dialog

- a. Indicate that section the user would click to change printouts to handout formats. (1 mark)
- b. Choose the section that the user would click to printout colour. (1 mark)
- c. The user need to deliver a presentation within a set time frame.
What feature of the presentation does the user need to set in order to guide the user to deliver a presentation on time? (1 mark)

ii. Apart from presenting textual information in a slide, other types of information can the user use in a slide? Identify 4 other types of information. (4 marks)

QUESTION 40

- i. What is the difference between “www.bsp.com.pg” and “www.bsp.com.pg/personal-loan.html”? (2 marks)
- ii. In Internet communication the acronym URL stands for _____. (1 mark)
- iii. Name two web design applications or html editor. (2 marks)
- iv. State two types of information that can be publish on a webpage apart from text. (2 marks)

END OF EXAMINATION

INFORMATION COMMUNICATION TECHNOLOGY (ICT)

PART B – ANSWER BOOKLET

Write your name, province and school codes and your candidate number correctly and clearly in the space provided below.

Year		Province		School			Candidate No		
1	3								

Candidate Name: _____

School Name: _____

ANSWERS WRITTEN ON THE QUESTION PAPER OR ANY OTHER PAPER WILL NOT BE MARKED.

WRITE ANSWERS NEATLY IN THE SPACES PROVIDED IN THIS ANSWER BOOKLET

FOR MARKERS USE ONLY

	Score	Markers' Initials	
		Marker 1	Marker 2
PART B			
QUESTION 31			
QUESTION 32			
QUESTION 33			
QUESTION 34			
QUESTION 35			
QUESTION 36			
QUESTION 37			
QUESTION 38			
QUESTION 39			
QUESTION 40			
FINAL TOTAL	70		

START YOUR WORK ON THE NEXT PAGE

Question 31	Marks per Qs.	Marker 1	Marker 2
i. a.	1		
b.	1		
c.	1		
ii. a.	1		
b.	1		
iii. a.	1		
b.	1		
<i>Total Marks =></i>	7		

Question 32	Marks per Qs.	Marker 1	Marker 2
i. a.	1		
b.	1		
c.	1		
ii. a.	1		
b.	1		
c.	1		
d.	1		
<i>Total Marks =></i>	7		

Question 33	Marks per Qs.	Marker 1	Marker 2
i. a	1		
b.	1		
ii. a.	1		
b.	1		
iii.	1		
iv.	1		
v.	1		
<i>Total Marks =></i>	7		

Question 34	Marks per Qs.	Marker 1	Marker 2
i.	2		
ii.	1		
iii.	1		
iv.	1		
v.	2		
<i>Total Marks =></i>	7		

Question 35	Marks per Qs.	Marker 1	Marker 2
i.	1		
ii. a.	1		
b.	1		
iii. a.	1		
b.	1		
c.	1		
iv.	1		
<i>Total Marks =></i>	7		

Question 36	Marks per Qs.	Marker 1	Marker 2
i. a.	1		
b.	1		
c.	1		
ii. a.	1		
b.	1		
iii. a.	1		
b.	1		
<i>Total Marks =></i>	7		

Question 37	Marks per Qs.	Marker 1	Marker 2
i. a.	1		
b.	1		
c.	1		
ii. a.	1		
b.	1		
iii. a.	1		
b.	1		
<i>Total Marks =></i>	7		

Question 38	Marks per Qs.	Marker 1	Marker 2
i. a.	1		
b.	1		
c.	1		
d.	1		
ii.	1		
iii.	1		
iv.	1		
<i>Total Marks =></i>	7		

Question 39	Marks per Qs.	Marker 1	Marker 2
i. a.	1		
b.	1		
c.	1		
ii. a.	1		
b.	1		
c.	1		
d.	1		
<i>Total Marks =></i>	7		

Question 40	Marks per Qs.	Marker 1	Marker 2
i.			
	2		
ii.	1		
iii. a.	1		
b.	1		
iv. a.	1		
b.	1		
<i>Total Marks =></i>	7		