

**BINDURA UNIVERSITY OF SCIENCE EDUCATION**  
**FACULTY OF SCIENCE AND ENGINEERING**  
**DEPARTMENT OF COMPUTER SCIENCE**  
**CS101 - INTRODUCTION TO COMPUTER SCIENCE**

**TIME: 2 HOURS**

OCT 2024

**TOTAL MARKS: 100**

**INSTRUCTIONS TO CANDIDATES**

Answer all questions.

Section A carries 40 marks, Section B 40 marks and Section C 20 marks

**SECTION A [40 marks]**

1. Collecting data and converting it into another form is called \_\_\_\_\_ [1]
2. What is the name given to the computer's short-term memory that is lost when the computer is turned off? [1]
3. Redo function in MS Word reverses the previously performed action.

**TRUE/FALSE [1]**

4. \_\_\_\_\_ and \_\_\_\_\_ are examples of text alignment in MS Word. [2]
5. \_\_\_\_\_ displays the name of the document that you are currently using. [1]
6. 'Ctrl + A' is a shortcut for \_\_\_\_\_ [1]
7. Two types of page orientation are \_\_\_\_\_ and \_\_\_\_\_ [2]
8. \_\_\_\_\_ is an example of a mobile phone operating system [1]
9. The part of a CPU that controls and manages the operations of a computer is called the \_\_\_\_\_. [1]
10. \_\_\_\_\_ Unit receives processed data from a computer and then translates it into another form. [1]
11. Which output devices is suitable for displays data to a large crowd? [1]
12. \_\_\_\_\_ and \_\_\_\_\_ are both types of computer storage. [2]
13. The process of storing a copy of data in a separate storage medium is called \_\_\_\_\_ [1]
14. A \_\_\_\_\_ is used to temporarily store items copied or cut from a document or computer. [1]
15. \_\_\_\_\_ and \_\_\_\_\_ are software applications which can be used to facilitate e-learning [2]

16. \_\_\_\_\_ write, modify, and test code and scripts that allow computer software and applications to function properly. [1]
17. Personal Area Network (PAN) may include a connection between a laptop and a smartphone using a Bluetooth. TRUE/FALSE [1]
18. A \_\_\_\_\_ is an example of a microcomputer. [1]
19. Computers are classified according to their sizes and capabilities. \_\_\_\_\_ is the most powerful followed by \_\_\_\_\_ computer. [2]
20. In a \_\_\_\_\_ topology devices are connected in linear fashion along a single central cable. [1]
21. An expression used to perform calculations in MS Excel is called \_\_\_\_\_. [1]
22. \_\_\_\_\_ supplies networking capability to a group of computers in close proximity to each other such as in an office building, a school or a room. It is useful for sharing resources like files, printers, games or other applications. [1]
23. Examples of slides layout in MS PowerPoint include \_\_\_\_\_ and \_\_\_\_\_. [2]
24. The process of terminating all of the computer programs and cutting off electricity is called \_\_\_\_\_. [1]
25. \_\_\_\_\_ is the process of preventing and detecting unauthorized users from accessing any part of the computer system. [1]
26. HTML abbreviation stands for \_\_\_\_\_. [1]
27. \_\_\_\_\_ network is a dedicated website or software application which enables users to communicate with each other by posting, commenting and sending message. [1]
28. Characters that appears slightly above the normal print line are called \_\_\_\_\_. [1]
29. A \_\_\_\_\_ is the name of a file created using a word processing package. [1]
30. \_\_\_\_\_ and \_\_\_\_\_ are examples of spreadsheet packages. [2]
31. \_\_\_\_\_ is the computerized method of writing, editing, saving and printing texts. [1]
32. A spreadsheet has the ability to do automatic recalculations when values change. TRUE/FALSE [1]
33. MAN stands for \_\_\_\_\_. [2]

**SECTION B [40 marks]**

1. Differentiate between data and information. [2]
2. Explain any three differences between RAM and ROM. Use a table [3]
3. State any three functions of an Operating System. [3]
4. State and explain any two advantages and two disadvantages of E-banking to a newly established business. [8]
5. Describe the following cyber crimes [3X 2 marks]
  - a. Identity theft
  - b. Pharming
  - c. Cyber bullying
6.
  - a. Define a computer virus [2]
  - b. Describe any three ways of preventing a computer from being infected by a virus. [3]
  - c. State any three ways of identifying a virus-infected computer. [3]
7. Nhaka works for a finance company and has a laptop that he uses for all his work. He has confidential data about his customers on his laptop. Nhaka does not connect his laptop to any networks. He is concerned about his customer's confidential data being viewed by other people in his office.  
Identify any three methods Nhaka could use to prevent his customers confidential data being viewed. [3]
8. Explain any three applications where a Artificial Intelligence can be used. [3]
9. Discuss the uses of computers in your area of study. [4]

**SECTION C [20 marks]****Question 1**

- a. Clearly state the steps on how to save a new document in a word processor. [3]  
b. List any two text formats used in the passage below which was prepared using word processor. [2]

**The fake report card**

*I failed the first quarter of a class in middle school, so I made a fake report card. I did this every quarter that year. I forgot that they mail home the end-of-year cards, and my mom got it before I could intercept with my fake. She was pissed at the school for their error. The teacher also retired that year and had already thrown out his records, so they had to take my mother's "proof" (the fake ones I made throughout the year) and "correct" the "mistake." I've never told her the truth.*

2. Use diagram in table 1 to answer this question.

	A	B	C	D	E
1	<b>SURNAME</b>	<b>ENGLISH</b>	<b>SCIENCE</b>	<b>MATHS</b>	<b>TOTAL</b>
2	MARK	60	55	84	
3	DAVID	74	73	40	
4	SUSAN	67	66	78	
5	RUDO	59	68	79	
6	JAMES	37	51	63	
7	HIGHEST				
8	LOWEST				
9	NUMBER OF PASS				

- a) Write a formula to calculate the total mark for Mark [2]  
b) Explain how to copy the formula to calculate the marks for other students. [2]  
c) Write down the functions to calculate the highest and the lowest marks in Science. [4]  
d) Use the following information to answer the question below  
    *Pass = 50 and above*  
    *Fail = less than 50*  
Enter formula in cell D9 to output the number of students with pass marks in Maths [3]  
e) Clearly state the procedure on how to create a bar chart showing Total Marks for each student. [4]

\*\*\*\*\*END OF PAPER\*\*\*\*\*