

NAME: _____ Day /Open (Tick)

CENTRAL EAST EDUCATION DIVISION



2026 MSCE MOCK EXAMINATION COMPUTER STUDIES



Wednesday, 11 March

Subject Number: M039/I

Time Allowed: 2 hours

08:00 – 10:00 AM

PAPER I (100 marks)

Instructions

1. This paper contains 10 printed pages. Please check.
2. There are **two** sections in this paper, **A** and **B**.
3. Answer **all** questions in Sections A and B using the spaces provided in this question paper.
4. The maximum number of marks for each correct answer is indicated against each question.
5. Follow instructions for each section.
6. Write your **name** at the top of each page of your question paper in the spaces provided.
7. Use of computers is **strictly prohibited** in this paper.
8. Use of calculators is not allowed.
9. In the table provided on this page, **tick** against the question number you have answered.
10. Hand over your paper to the invigilator when time is called to stop writing.

Question Number	Tick if answered	Do not write in these columns	
1			
2			
3			
4			
5			
6			
7			
8			
9			

Turn over.../



Section A (55 marks)

Answer all five questions in this section in the spaces provided

1. a. Define the term 'software installation'

(1 mark)

- b. State **two** methods used in operating system installation

(2 marks)

- c. List any **three** problems associated with software installation

(3 marks)

2. a. Differentiate the following terms:

- i. Worksheet and workbook

(2 marks)

- ii. Half duplex and full duplex

(2 marks)

b. Mention any **two** examples of desktop publishing software

(2 marks)

c. Name the **three** parts of URL used on a web browser

(3 marks)

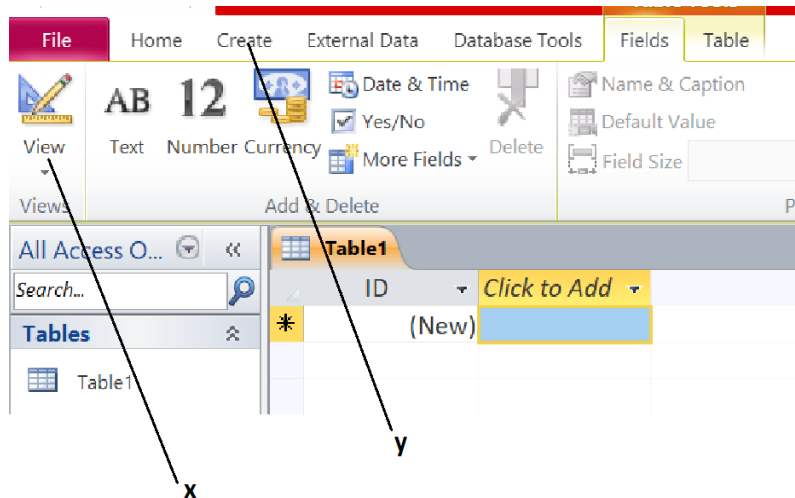
d. Why is it important to hide a row/column in a worksheet?

(2 marks)

3. a. Explain any **two** functions of a DBMS.

(4 marks)

Figure 1 shows part of an application software window. Use it to answer questions that follow



b. Identify the application program shown on the diagram _____ (1 mark)

c. State any **two** views found on the part labeled **X**

(2 marks)

d. Describe any **two** objects which can be created using the tab labeled **Y**

(4 marks)

4. a. Define the term variable as used in programming

(1 mark)

b. Explain any **two** situations which can prompt a programmer to develop new programs

(4 marks)

c. Why it is important to test the program before its implementation? Give any **two** reasons

(2 marks)

d. State any **two** characteristics of IPv6 addresses

(2 marks)

5. a. With an example, describe “**social networks**”

(3 marks)

b. State any **two** functions of each of the following layers of OSI network model

i. Data link layer

(2 marks)

ii. Transport layer

(2 marks)

6. a. Give any **three** benefits of desktop publishing software

(3 marks)

b. Describe the procedure for rotating an object in publisher **4 marks)**

c. Explain any **two** advantages of wireless networks

(4 marks)

Section B (45 marks)

Answer all the three questions in this section in the spaces provides

7. a. With the aid of a diagram, describe ring network topology

(5 marks)

- b. Study the program extract written in Visual Basic and answer the questions that follow.

Module Module1

Sub Main()

Dim radius As Double

Dim area As Double

Console.WriteLine("Enter the radius of the circle:")

radius = Console.ReadLine()

*area = 3.142 * radius * radius*

Console.WriteLine("The area of the circle is:" area)

Console.ReadLine()

End Sub

End Module

NAME: _____ Day /Open (Tick)

- i. Identify any **one** arithmetic operator used in the program above.

_____ (1 mark)

- ii. Identify a statement having an error in the program above and write a correct one

_____ (2 marks)

- iii. Mention any **one** variable used in the program above

_____ (1 mark)

- c. Describe any **three** common computer hardware related problems

(6 marks)

8. a. Outline the procedure for creating a columnar form using a wizard in MS Access

(7 marks)

b. Describe any **two** limitations of low-level programming languages.

(4 marks)

c. Explain the procedure how to solve the problem of hanging in computer systems

(4 marks)

9. a. Describe the following inbuilt functions used in Spreadsheet and provide an example on each case

i. Logical functions

(3 marks)

ii. Mathematical functions

(3 marks)

b. **Table 1** shows scores of top 3 students in Computer Studies. Use it to answer questions that follow.

	A	B	C
1	Student Name	Score	Grade
2	Mambo Tasiyana	71	
3	Mtonga Joshua	92	
4	Ron Seth	87	

Write IF-function which can be used to work out grades of the 3 students based on the following grading system

70-79 = 3

80-85 = 2

86-100 = 1

(7 marks)

c. Explain why switches are described as intelligent hubs.

(2 marks)

END OF QUESTION PAPER

NB: This paper contains 10 printed pages.