

CANDIDATE NAME: _____



NORTHERN EDUCATION DIVISION

2025 JUNIOR CERTIFICATE MOCK EXAMINATIONS

COMPUTER STUDIES MARKING SCHEME

(100 marks)

Tuesday, April 1

Subject Number: J039

Time Allowed: 2 hours

1:30 – 3:30 pm

Section A (20 marks)

Answer all the **twenty** questions in this section by encircling the correct option to the question

- | | |
|--|--|
| <p>1. What does SVGA stands for?</p> <ul style="list-style-type: none">A. Standard Visual Graphics ArrayB. Super Visual Graphics ArrayC. Standard Video Graphics ArrayD. Super Video Graphics Array <p>2. In which category of computers are the Auto Teller Machines?</p> <ul style="list-style-type: none">A. MicrocomputersB. Special Purpose ComputersC. ServersD. Special Computers <p>3. A hybrid computer _____</p> <ul style="list-style-type: none">A. processes analogue data onlyB. processes digital data onlyC. processes both analogue and digital data | <p>D. process data and information faster</p> <p>4. Which of the following are types of ROMs?</p> <ul style="list-style-type: none">A. SRAM & DRAMB. PROM & EPROMC. Only one type there is no further classificationD. PROM & EROM <p>5. Which of the following is used in an optical mouse?</p> <ul style="list-style-type: none">A. Infrared lightB. Light Emitting Diode (LED)C. SensorD. Microwave |
|--|--|



6. Which of the following is used to open a file?

- A. Clicking
- B. Dragging and dropping
- C. Double clicking**
- D. Right clicking

7. Which of the following is a unit of measurement for a computer storage?

- A. Byte**
- B. Memory
- C. Hertz
- D. Gram

8. Which of the following is also known as brain of computer?

- A. Control Unit
- B. Central Processing Unit**
- C. Arithmetic and Logic Unit
- D. Monitor

9. Which of the following is **not** a pointing device?

- A. Mouse
- B. Monitor**
- C. Trackball
- D. Touch pad

10. **Figure 1** below is the diagram of a printer



Figure 1

What is the main disadvantage of the printer above?

- A. Expensive to buy
- B. Expensive to keep
- C. Expensive to run**
- D. None of the above

11. Which of the following can prevent theft of Computers in the laboratory?

- A. Using uninterrupted power supply
- B. Using passwords
- C. Fitting burglar bars on doors and windows**
- D. Switching computers using the correct procedure

12. What is the first step you should take when troubleshooting a computer problem?

- A. Immediately try to fix it.
- B. Ask a friend for help.
- C. Identify the problem and gather information about the symptoms.**
- D. Open the computer case and check the wires.

13. What is basic unit of information in a computer usually represented by 0 or 1.

- A. Byte
- B. Bit**
- C. Hertz
- D. Nipple

14. The main memory of computer is also known as

- A. Hard-disk
- B. Primary storage**
- C. Secondary storage
- D. Internal memory

15. _____ is a collection of unprocessed items, which can include text, numbers, image audio and video.

- A. Data**
- B. Instruction
- C. Programs
- D. Information

16. What is the main difference between mainframe and super computers?

- A. Super computers are much larger than mainframe computers**
- B. Super computers are much smaller than mainframe computers
- C. Supercomputers are focused on executing few programs as fast as possible while mainframe computers

use their power to execute as many programs concurrently

- D. Supercomputers are focused on executing as many programs as possible while mainframe computers use their power to execute few programs as fast as possible

17. What was used in the making of the second generation of computers

- A. Vacuum tubes
- B. Transistor
- C. Integrated circuit
- D. All the above

18. The F1, F2, F3, F4..., F12 are known as _____

- A. Final keys
- B. Fractional keys
- C. Functional keys**
- D. Special keys

19. What is the function of a note pane in PowerPoint?

- A. Contains frequently used commands
- B. Displays common formatting tools
- C. Its where you write what is to be presented
- D. Add more notes that could not fit on a slide**

20. The _____ is the component of the processor that directs and coordinate most of the operation in the computer



A. control unit

B. arithmetic logic unit

C. central processing unit

D. machine cycle

Section B (50 marks)Answer all the **ten** questions in this section in the spaces provided21.. State any **one** type of Read Access Memory.✓ *DRAM*✓ *SRAM*✓ *SDRAM*✓ *DDR SDRAM*✓ *DDR2 SDRAMDDR3 SDRAM*✓ *DDR4 SDRAM*✓ *RDRAM*✓ *EDO RAM*✓ *FPM RAM***(1 mark)**b. **Figure 2** below is an example of a secondary storage device.**Figure 2**

i. Identify the device above.

✓ *Flash Disk***(2 mark)**ii. List down any **two** advantages of this device over a floppy disk device.✓ *It is more portable than the floppy disk*✓ *It usually has more storage space than floppy disks***(2 marks)**

c. What do the following acronyms stand for in computer?

i. CMOS



✓ *Complementary Metal-Oxide Semiconductor* (1 mark)

ii. POST

✓ *Power-On-Self Test* (1 mark)

iii. VGA

✓ *Video Graphics Array* (1 mark)

d. State any **one** advantage of the following types of computer monitors;

i. Liquid Crystal Display (LCD)

✓ *LCD consume less power than non- LCD*

✓ *It last long, they have a longer lifespan*

✓ *LCD devices come in all shapes and sizes*

(2 marks)

ii. Cathode Ray Tube (CRT)

✓ *Less expensive than other display technology*

✓ *Fast response time*

✓ *Highest pixel resolutions generally available*

✓ *They produce more colors*

✓ *CRT also suitable for use even in dim or dark light*

(2 marks)

22. a. Mention any **one** reason why the following resources are important in the management and safe use of computers?

i. Uninterruptible Power Supply (UPS)

✓ *This will allow the users to save everything to avoid data loss and proper shut the computer down*

(2 marks)

ii. Insulated power cables

✓ *It prevents electrical shock*

✓ *It protect the materials to which the electric current flows*

✓ *It limits current flow between different electrical conductors*

(2 marks)

b. Explain any **one** cause of software and data loss

✓ *Human error*



- *Accidental*
- *Spillage of liquids*
- ✓ *Theft*
- ✓ *Software corruption*
- ✓ *Computer viruses*
- ✓ *Hardware impairment*
- ✓ *Power failure*
- ✓ *Natural disasters*

(2 marks)

23.a. **Figure 3** is a diagram showing a command button Ms. PowerPoint. Use it to answer the questions that follow.



Figure 3

iv. In which application software is the above button or icon found?

- ✓ *Presentation Software/Ms PowerPoint*

(1 mark)

v. What is the function the command button?

- ✓ *Used to insert a new slide in a presentation software*

(2 marks)

b. List any **two** examples of presentation software. (2 marks)

- | | |
|-------------------------------|---------------------|
| ✓ <i>Microsoft PowerPoint</i> | ✓ <i>Prezi</i> |
| ✓ <i>Google Slides</i> | ✓ <i>Visme</i> |
| ✓ <i>Apple Keynote</i> | ✓ <i>Canva</i> |
| ✓ <i>LibreOffice Impress</i> | ✓ <i>SlideShare</i> |
| ✓ <i>OpenOffice Impress</i> | ✓ <i>Powtoon</i> |

24.a. Explain the role or use of the following features in Microsoft word.

i. Find and Replace

- ✓ *Allows the user to search for specific text or pattern within a document or file and replace with a new text and formatting*

(2 marks)

ii. Undo and Redo

- ✓ *Undo reverses an operation while Redo allows the user to bring back a change previously made.*

(2 marks)

25. Outline the steps to be followed when dividing a paragraph in a word document into three columns with a line in between.

- ✓ *Go back to the "Layout" or "Page Layout" tab.*
- ✓ *Choose the columns*
- ✓ *More columns*
- ✓ *Type 3 on the number of columns and click on line between*
- ✓ *Click Ok*

(4 marks)

26. Explain the impact of computers on the following;

a. Environment

- ✓ *Mining for rare earth metals needed in computer components can damage ecosystems and generate significant pollution.*
- ✓ *Poor disposal of computer wastes pollutes the environment*
- ✓ *Computers require electricity to operate, which often comes from fossil fuels, leading to greenhouse gas emissions.*
- ✓ *The manufacturing process of computers generates air pollution due to chemical reactions and energy usage*

(2 marks)

b. Education



- ✓ *Students can readily access vast libraries of online information, research databases, and educational materials through the internet, going beyond traditional textbooks.*
- ✓ *Adaptive learning software and online platforms can tailor content and pace to individual student needs, allowing for more focused learning.*
- ✓ *Educational games, simulations, and virtual labs provide engaging and hands-on learning experiences.*
- ✓ *Online platforms facilitate collaboration between students and teachers across geographical distances, enabling group projects and discussions.*
- ✓ *Computers empower teachers to create dynamic presentations, track student progress effectively, and deliver more engaging lessons.*

(2 marks)

c. Culture

- ✓ *Computers have enabled people to connect with others across the globe almost instantly through email, social media, and video conferencing, leading to a more interconnected world and the breakdown of geographic barriers*
- ✓ *With the rise of remote work and digital platforms, computers have altered traditional work structures, allowing for greater flexibility in location and schedule*
- ✓ *Online platforms and social media have created virtual communities where people can connect based on shared interests, fostering new social dynamics and influencing social norms.*

(2 marks)

27. Figure 4 below shows graphical view of the role of an operating system.



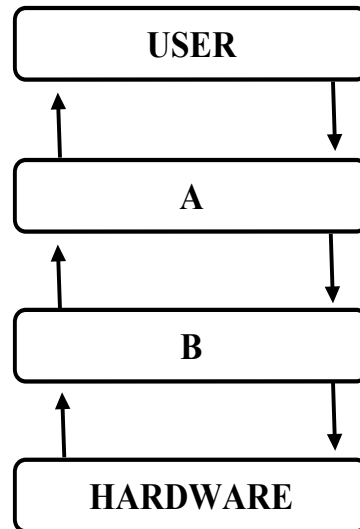


Figure 4

- i. Identify **A** and **B**

A. Application

(1 mark)

B. Operating System

(1 mark)

- ii. State any **two** roles played by part **B**

✓ *Act as an interface between the system hardware and the user*

✓ *Memory management*

✓ *It helps in processor management / scheduling*

✓ *Error handling*

✓ *File management*

✓ *Storage management*

(2 marks)

28. Name the type of scanner used to

- i. capture prices of goods at points of sale terminals in supermarkets and superstores.

✓ *Barcode reader or scanner*

(1 mark)

- ii. grade or mark multiple choice question.

✓ *OMR scanner*

(1 mark)

29.a. Differentiate transitions from animations as used in PowerPoint presentation.

✓ *Transitions define how slides behave as you move from one slide to another while*

animations define what happens to the characters/text on a slide

(2 marks)

- d. State any **one** reasons why is it important to check the properties of a computer system before



buying.

- ✓ *Helps the user to know the size or ram, storage space, processor speed and type*

(1 mark)

30.State any **one** computer hardware related problem and explain how you can resolve it.

- ✓ *Printer not printing*

- *check if the printer has paper/its powered on*
- *check that the computer cable is properly connected both to the printer and the computer*

- ✓ *Mouse/keyboard not working*

- *Check if the keyboard/mouse is connected to the computer*
- *Try another port/keyboard/mouse*

- ✓ *Computer no switching on*

- *Check the power cables if properly fixed to the computer*
- *Check that the sockets/power outlets are switched on*
- *Check for the availability of power*

(4 marks)

Section C (30 marks)

Answer all the **three** questions in this section in the spaces provided

31.a. Explain the **two** types of page orientation.

- ✓ *Landscape*

- ✓ *Portrait*

(4 marks)

b. Discuss any **three** types of views in Microsoft word.

- ✓ *Read mode view*

- ✓ *Outline view*

- ✓ *Print Layout view*

- ✓ *Draft view*

- ✓ *Web layout view*



(6 marks)

32. Outline the procedure for inserting the following;

a. Watermark in a word document

- | | |
|---------------------------------|--|
| i. Click on design tab | iv. If customise, choose the format- |
| ii. Go to watermark | picture or text |
| iii. Choose from the default or | v. Select the picture of type the text |
| customise | vi. Apply |

(5 marks)

b. Pictures in a Presentation

- | | |
|---|------------------------|
| i. Go to insert tab | iv. Select the picture |
| ii. Click on Pictures | v. Click OK |
| iii. Choose the location of the picture | |

(5 marks)

33.a. Give any **four** ways of protecting computers from viruses.

- ✓ Avoid sharing removable disks
- ✓ Avoid opening unsolicited emails
- ✓ Avoid downloading and installing software from untrusted sources
- ✓ Installing and updating an antivirus

(4 marks)

b. Explain any **three** factors to consider when designing a presentation.

- ✓ Type of the presentation
- ✓ Age of the audience
- ✓ Nature of the presentation
- ✓ Time for the presentation
- ✓ Time allocated for the presentation
- ✓ Topic of the presentation

(6 marks)



END OF MARKING SCHEME

NB: This is just a proposed marking scheme, feel free to add more responses

