

Signature:

<i>Random No</i>	1 9 1 0 0 9
<i>Personal No</i>	

The logo of the Jinja Joint Examinations Board is a circular emblem. The words "JINJA JOINT" are written in a semi-circle at the top, and "EXAMINATIONS BOARD" is written in a semi-circle at the bottom, separated by a small dot. In the center of the circle is a stylized torch with a flame, positioned behind an open book. The book is shown from a three-quarter perspective, with its pages fanning out to the right.

Paper 1
2 hours 30 minutes

For Examiner's Use Only

[illegible]

Section A (20 marks)

Compulsory Questions

1. _____ was the first electronic digital computer.

- A) ABC
- B) ENIAC
- C) UNIVAC
- D) IBM 700

2. The sequence of event that includes: Fetch – Decode – Execute and Store is referred to as:

- A) CPU Cycle
- B) Information Processing Cycle
- C) Data Processing Cycle
- D) Execution Cycle

3. What component must be compatible with every other component of the computer?

- A) System Unit
- B) Monitor
- C) Motherboard
- D) Keyboard

4. _____ was the first general purpose electronic digital computer.

- A) ABC
- B) ENIAC
- C) UNIVAC
- D) EDIVAC

5. Keyboard was introduced in _____ generation of computers.

- A) Second
- B) Third
- C) Fourth
- D) Fifth

6. Which of the following traits affecting IT support is also governed by Law?

- A) Punctuality
- B) Accountability
- C) Privacy
- D) Respect

7. What is the first step when installing Windows onto a system that does not already have a functioning operating system?

- A) Formatting
- B) Partitioning
- C) Redirecting
- D) Installing the OS

8. To fix bad power supply in a desk top PC, you should

- A) Remove and replace the entire power Supply.
- B) Disassemble the power supply and replace the coils away.
- C) Disassemble the power supply and replace the capacitors.
- D) Disassemble the power supply and replace the resistors.

9. What would be the best thing to use to clean a laptop displays?

- A) A clean smooth damp cloth
- B) Glass cleaner
- C) Abrasive cleaning powder
- D) LCD Cleaner

10. The Screensaver can be changed in the dialog box:

- A) Displays properties
- B) Taskbar
- C) Menu Bar
- D) Shortcut menu

11. Which of the following programs is shareware software?

- A) Mozilla Firefox Browser.
- B) Google chrome
- C) Internet Explorer
- D) Download Manager program

12.----- is one of the basic Editing features of a word processing application.

- A) Close
- B) Find
- C) Print
- D) Underline

13. When you want all your slides to contain the same fonts and images (such as logos) in PowerPoint, you can make those changes in one place the.....

- A) Slide Master
- B) Notes Master
- C) Slide Sorter
- D) Handout Master

☐

14. Which technology uses a physical characteristic to establish identity?

- A) Biometric.
- B) Surveillance.
- C) Smart Card.
- D) CHAP Authenticator.

☐

15. What is the use of spreadsheet application?

- A) Making presentation to big audience.
- B) What if analysis.
- C) Designing a website.
- D) Editing photographs.

☐

16. An error in a program that makes it do something other than what the programmer intended is called

- A) Syntax Error
- B) Logic Error
- C) Compiler Error
- D) Semantic Error

☐

17. Which of the following HTML tag can change "Computer Studies" to Bold?

- A) ` Computer Studies`
- B) `<bold> Computer Studies</bold>`
- C) ` Computer Studies`
- D) `</bold>Computer Studies<bold>`

☐

18. Which of the following is a characteristic of a relational database?

- A) Operates on a single table.
- B) Operates on multiple tables
- C) Has no foreign key
- D) Uses one-to-one relationship only

☐

19. What is the proper way to dispose off a broken CRT Monitor?
- A) Take it to a computer recycling center
 - B) Discharge the monitor with a high-volt probe and throw it away.
 - C) Throw it away.
 - D) Document the specifications and throw it away.

☐

20. Your help desk has informed you that they received an urgent call from the vice president last night requesting his Logon ID and password. What type of attack is this?

- A) Spoofing
- B) Replay attack
- C) Social Engineering
- D) Trojan Horse

☐

Section B (60 marks)

Answer all questions from this section.

21. (a) Suggest any **four** reasons why vacuum tubes used in first generation of computers were replaced by transistors in the second generation of computers.

(08 marks)

i.

ii.

iii.

iv.

(b) Explain why Charles Babbage is known as the father of modern computers.
(02 marks)

.....

.....

22. (a) Explain any **three** main areas in Entertainment where computer systems are used.
(06 marks)

i.

.....

ii.

.....

iii.

.....

(b) Suggest any **four** advantages of using a Smartphone over a laptop. (04 marks)

i.

.....

ii.

.....

.....

iii.

.....

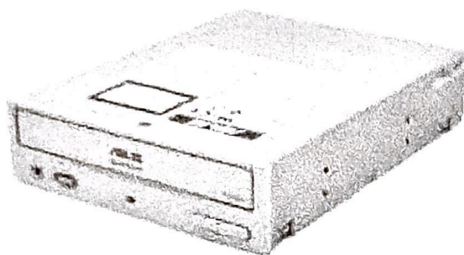
.....

iv.

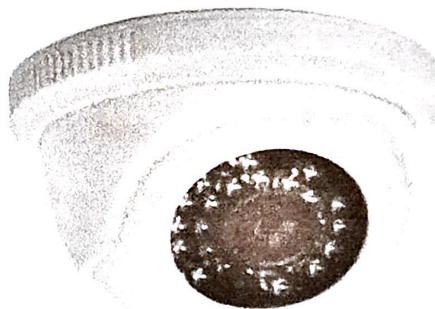
.....

.....

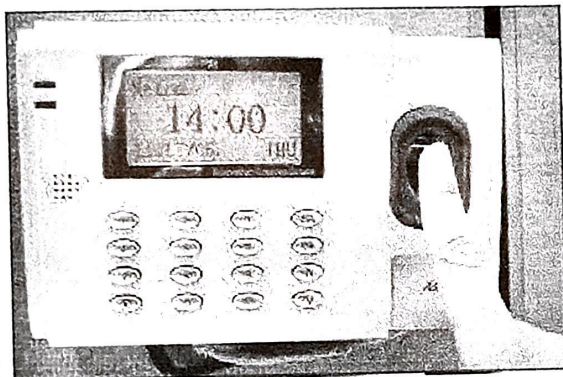
23. Study the Figures below and use it to answer the following questions:



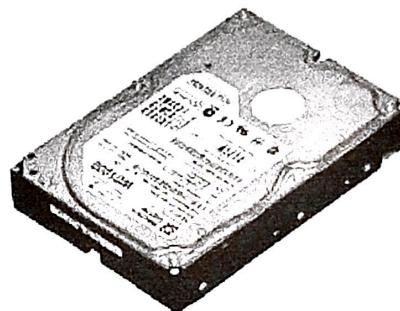
A



B



C



D

i. Identify the devices labeled.

(04 marks)

A.....

B.....

C.....

D.....

ii. State **one** function of device labeled.

B

(02 marks)

.....

.....

D

(02 marks)

.....

.....

iii. Suggest **one** similarity between devices **B** and **C**.

(02 marks)

.....

.....

24. People use the Internet for a variety of reasons. Suggest any **five** reasons you know.

a)

.....

(02 marks)

b)

.....

(02 marks)

c)

.....

...

(02 marks)

d)

.....

(02 marks)

e)

.....

(02 marks)

25. (a) Explain the following application software. Give one example in each case:

i. Packaged Software

(02 marks)

.....

.....

Example:

ii. Custom Software

(02 marks)

Example

iii. Shareware Software

(02 marks)

Example

(b) State **one** difference between Freeware and Public domain Software. (02 marks)

c) Outline **one** function of a System Software.....(02 marks)

26. The table “**Staff**” below gives the information about database of some staff members of

“**Bomy Group of Companies Ltd**”.

Staff ID	Name	Gender	Nationality	Date of birth	Salary
C001	Heinz Adam	Male	Ugandan	23/11/1988	57,000
C002	Opio James	Male	Kenyan	03/07/1979	70,000
C003	Agero Jalia	Female	Tanzanian	12/02/1990	32,000
C004	Sarah Fayi	Female	Ugandan	28/12/1975	25,000
C005	Gamal Jane	Female	Kenyan	18/11/1991	20,000

(a) What is the primary key of this table? (01 mark)

.....

(b) Suggest any **three** reasons to support your answer in (a) above (06 marks)

i.

.....

ii.

.....

iii.

.....

(c) State the data types of the following fields:

i. Staff ID..... (01 mark)

ii. Salary (01 mark)

(d) How many records are in this table?..... (01 mark)

Section C (20 marks)

Answer any **one** question from this section

27. Your school plans to design a new computer laboratory measured by $(L \times W \times H)$

Where **L** is the length, **W** is the width, and **H** is the Height of the room in meters.

- a) Write an algorithm that can be used to determine the surface area of the floor of the room. (05 marks)
 - b) Write a pseudo code for the algorithm design in (a) above. (05 marks)
 - c) Design a flow chart for determination of the surface area of the floor of the room. (05 marks)
 - d) Outline any five high level programming Languages that can be use to determinethe surface area of any Computer Laboratory (05 marks)
28. (a) Discuss any four physical security measures one can use to protect against computercrime today. (08 marks)
- (b). Your contacts are receiving spam from your email account.
- i. What is the most probable cause? (06 marks)
 - ii. Suggest any two solutions to this problem. (06 marks)
29. (a) A computer running windows operating system restarts without warning automatically. Identify and explain any four problems that might have caused a computer to reboot often. (12 marks)
- (b) . The computer is running and has a delayed response. Suggest **one** probable causeand any **three** possible solutions. (08 marks)

END