

# 2015

Charles Babbage was the first to?

- A. invent slide rule
- B. invent analytical engine
- C. make census machine
- D. make use of the punched card

2. Which of the following devices is not a micro computer?

- A. Desktop
- B. EDVAC
- C. Laptop
- D. Notebook

3. The main difference between a laptop and a desktop is that a laptop?

- A. does not have mouse while a desktop has
- B. uses USB port while desktop uses parallel port
- C. can be connected to the internet while desktop cannot
- D. contains high capacity battery that powers for extensive period while desktop has not.

4. Abacus is used for?

- A. addition
- B. subtraction
- C. addition and subtraction
- D. multiplication and division

5. The computer hardware is made up of system unit and?

- A. motherboard
- B. peripheral
- C. control unit
- D. central processing unit

6. The computer memory is measured in?

- A. bit
- B. byte
- C. hertz
- D. nibble

7. If the output signal of any logic gate is fed into an inverter, the result is?

- A. NOT gate
- B. Nor gate

- C. the inverse of the output signal
- D. the same as the output signal

**8.** The device through which the main components of the computer communicate with each other is called?

- A. keyboard
- B. memory
- C. light pen
- D. system bus

**9.** The hardware of a computer does not consist of?

- A. casing
- B. mouse
- C. peripherals
- D. windows

**10.** Output devices in a computer are those devices that send?

- A. results to the memory of the computer
- B. processed data and instructions into the computer
- C. in data and instructions into the computer
- D. data and instructions into the memory of the computer

**11.** Which of the following is not a mobile input device?

- A. Joystick
- B. Light pen
- C. Mouse
- D. Scanner

**12.** Figure 1 above is a logic gate. Use it to answer questions 12 to 14.

Figure 1 represents?

- A. a NOT gate.
- B. a NAND gate
- C. an AND gate
- D. an OR gate.

**13.** X, Y and Z respectively, represents?

- A. input, output and input signals.
- B. output, output and input signals
- C. output, input and output signals.
- D. input, input and output signals.

**14.** Use the Logic gate above to answer this question.

When signals  $X = 0$  and  $Y = 1$ , signal  $Z$  is?

- A. 0.1
- B. 0
- C. 1
- D.  $0 + 1$

**15.** The memory unit of the computer belongs to the?

- A. control unit
- B. input device
- C. output device
- D. system unit

**16.** Which of the following is not a function of the operating system?

- A. Analysis of the computer components.
- B. Ensuring the proper functioning of hardware.
- C. Maintenance of directories in external storage.
- D. Opening and closing files.

**17.** An example of a specific purpose application package is the?

- A. payroll program.
- B. database program.
- C. spreadsheet program.
- D. word processing program

**18.** The operating system, translators and utility programs are examples of?

- A. application software.
- B. customized Software.
- C. network software.
- D. system software.

**19.** The first stage in program development is problem?

- A. analysis.
- B. definition.
- C. solving.
- D. testing

**20.** A pictorial representation of program flow is referred to as?

- A. algorithm
- B. flow chart.

- C. process mapping.
- D. pseudo code

**21.** An example of a programming language that uses mnemonic codes is?

- A. Assembly program.
- B. BASIC program.
- C. COBOL program.
- D. FORTRAN program.

**22.** The use of satellite to transmit signal information to the earth is enabled with the use of?

- A. GSM.
- B. GPS.
- C. POS.
- D. WAN

**23.** The line segment that describes the contents of the message when sending an e-mail is?

- A. Cc.
- B. Contents.
- C. Subject.
- D. To.

**24.** Which of the following networks covers the widest range?

- A. LAN.
- B. MAN.
- C. PAN.
- D. WAN.

**25.** The keyboard command used to copy text in MS-Word document is?

- A. Shift + G.
- B. Ctrl + N.
- C. Ctrl + C.
- D. Ctrl + Alt + C.

**26.** The colour palette in CorelDraw allows the user to?

- A. arrange colour.
- B. draw in colour.
- C. pick colour tool.
- D. choose different pre-set colour palettes.

- 27.** In order to get to the symbol dialog box in MS-Word click on the?
- A. Home tab.
  - B. Insert tab.
  - C. Page Layout tab.
  - D. View tab.
- 28.** In a network, the workstation is usually connected to the?
- A. Hub.
  - B. Modem.
  - C. Router.
  - D. Switch.
- 29.** When browsing on the internet, a possible reason for the message "page not found" is that?
- A. the weather is hot.
  - B. the web browser is fast.
  - C. multiple web pages are loading at the same time.
  - D. a connection between the client and server has been lost.
- 30.** Which of the following is not a network device?
- A. Hub
  - B. Modem
  - C. Port
  - D. Router
- 31.** Which of the following is a valid e-mail address?
- A. [www.itbeginswithu.org](http://www.itbeginswithu.org)
  - B. waeconline@yahoo.co.uk
  - C. [www.waeconline.org](http://www.waeconline.org)
  - D. [www.fine.gov.ng](http://www.fine.gov.ng)
- 32.** In word processing, an efficient way to move the second paragraph and place it after the fourth paragraph is?
- A. copy and paste.
  - B. copy, cut and paste.
  - C. cut and paste.
  - D. cut, copy and paste.
- 33.** Which of the following items changes shape depending on the task being performed?
- A. Ribbon
  - B. Active tab

- C. Insertion point
- D. Mouse pointer

**34.** The computer keyboard key(s) that a user presses to move to the beginning of a current line of text is/are the?

- A. Enter key.
- B. Home key.
- C. Ctrl + B keys.
- D. Ctrl + Home keys.

**35.** Data loss in a computer cannot be prevented by the use of?

- A. antivirus.
- B. backup.
- C. flash drive.
- D. password.

**36.** The shortcut command used in restarting a computer is?

- A. Ctrl + S.
- B. Ctrl + 0.
- C. Del + Alt + S.
- D. Alt + Ctrl + Del.

**37.** The term 'bus' width in data transfer refers to the?

- A. number of wires in the bus.
- B. size of the data movement.
- C. number of bits of information the RAM can send to the CPU at the same time.
- D. number of wires in the bus that carry information to the processor at a time.

**38.** The part of the computer that holds the data and programs for CPU processing is the?

- A. Address.
- B. Register.
- C. Random Access Memory.
- D. Read Only Memory.

**39.** A high level language can be converted to a machine language using?

- A. a compiler.
- B. an editor.
- C. a utility program.
- D. an operating system.

**40.** Which of the following statements is true of encryption?

- A. provides complete privacy.

- B. provides security of varying reliability.
- C. makes messages unreadable by the recipient.
- D. permits an individual to have access to another person's message.

**41.** Computer ethics are important because they?

- A. ensure identity theft.
- B. regulate the privacy of messages only.
- C. address piracy and comporment issues.
- D. prevent copyright infringement on discretional basis.

**42.** Which of the following is the main advantage of intellectual property right?

- A. Discouragement of sharing.
- B. Discovery of brilliant persons.
- C. Encouragement of innovations.
- D. maximization of profit.

**43.** Which of the following statements is true of free software?

- A. can be borrowed freely.
- B. is a low-cost software.
- C. is a free unlicensed software.
- D. is a licensed software with permission to copy freely.

**44.** In hexadecimal number system, B, D and F represent which of the following decimal numbers?

- A. 11, 13 and 15 respectively.
- B. 12, 14 and 15 respectively.
- C. 13, 14 and 15 respectively.
- D. 14, 16 and 17 respectively.

**45.** The conversion of  $1100_2$  to base ten equals?

- A. 20.
- B. 25.
- C. 28.
- D. 30.

**46.** 910 is equivalent to  $X_8$ , where X is?

- A. 7.
- B. 10.
- C. 11.
- D. 12.

47. Use the MS-Excel table below to answer questions 48 to 50.

A	B	C	D
1	BOOKS SUPPLIED TO SENIOR HIGH SCHOOL		
2	FORM	MATHS	ICT   ENGLISH LANG
3	SHS I	2456	6580   5678
4	SHS II	3450	4009   4400
5	SHS III	8765	4500   9000

**The content of cell D3 is?**

- A. 3450.
- B. 4400.
- C. 4500.
- D. 5678.

48. Use the MS-Excel below to answer this question.

A	B	C	D
1	BOOKS SUPPLIED TO SENIOR HIGH SCHOOL		
2	FORMS	MATHS	ICT   ENGLISH LANGUAGE
3	SHS I	2456	6580   5678
4	SHS II	3450	4009   4400
5	SHS III	8765	4500   9000

**The number of cells that contain data in row 1 is?**

- A. 1.
- B. 3.
- C. 4.
- D. 5.

**The number of cells that contain numeric data in the table above is?**

- A. 4.
- B. 8.
- C. 9.
- D. 12.

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## THEORY

50. (a) Define the term operating system.  
(b) State two functions of an operating system.



- (c) List two types of:
- (i) application software
  - (ii) translators
- (d) You were asked as a school prefect to compile the personal data of final year students in your school. State two software that could be used to perform the task.
- 51.** (a) What is a computer file?
- (b) State two features each of:
- (i) transaction file
  - (ii) reference file.
- (c) List two:
- (i) effects of file insecurity
  - (ii) methods of securing files.
- 52.** (a) Define the term system development cycle.
- (b) List four stages involved in system development cycle.
- (c) State four qualities of a good program.
- 53.** (a) List the two main constituents of a computer.
- (b) State four characteristics of a computer.
- (c) In a tabular form, categorize each of the following statements into either data or information:
- (i) It is not significant alone by itself;
  - (ii) It is significant by itself;
  - (iii) It is obtained through observations and recordings;
  - (iv) It is obtained through analysis.
- 54.** (a) Define algorithm.
- (b) State three characteristics of an algorithm.
- (c) Write an algorithm for finding the average of numbers, when the sum of the numbers is given.

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## Solutions

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**1.** Charles Babbage was the first to?

**Solution:** B. invent analytical engine

**2.** Which of the following devices is not a micro computer?

**Solution:** B. EDVAC

3. The main difference between a laptop and a desktop is that a laptop?

**Solution:** D. contains high capacity battery that powers for extensive period while desktop has not.

4. Abacus is used for?

**Solution:** C. addition and subtraction

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**Solution:** B. peripheral

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**Solution:** B. byte

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**Solution:** C. the inverse of the output signal

8. The device through which the main components of the computer communicate with each other is called?

**Solution:** D. system bus

9. The hardware of a computer does not consist of?

**Solution:** D. windows

10. Output devices in a computer are those devices that send?

**Solution:** A. results to the memory of the computer

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**Solution:** C. Port

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**Solution:** B. waeconline@yahoo.co.uk

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**Solution:** D. is a licensed software with permission to copy freely.

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**Solution:** B. 25.

**46.** 910 is equivalent to  $X_8$ , where X is?

**Solution:** C. 11.

**47.** Use the MS-Excel table below to answer questions 48 to 50.

The content of cell D3 is?

**Solution:** C. 4500.

**48.** The number of cells that contain data in row 1 is?

**Solution:** C. 4.

**49.** The number of cells that contain numeric data in the table above is?

**Solution:** B. 8.

---

## THEORY

**50.** (a) Define the term operating system.

**Solution:** The operating system is system software that manages computer hardware and software resources and provides common services for computer programs.

(b) State two functions of an operating system.

**Solution:**

1. Managing hardware resources (CPU, memory, storage, etc.).
2. Providing a user interface (CLI, GUI).

(c) List two types of:

(i) application software

**Solution:**

1. Word processors (e.g., Microsoft Word).
2. Spreadsheet software (e.g., Microsoft Excel).

(ii) translators

**Solution:**

1. Compilers.
2. Interpreters.

(d) You were asked as a school prefect to compile the personal data of final year students in your school. State two software that could be used to perform the task.

**Solution:**

1. Microsoft Excel.
2. Database management systems (e.g., Microsoft Access).

**51. (a)** What is a computer file?

**Solution:** A computer file is a collection of data or information that is stored on a computer system and is identified by a filename.

(b) State two features each of:

(i) transaction file

**Solution:**

1. Contains records of transactions.
2. Updated regularly.

(ii) reference file.

**Solution:**

1. Contains static data.
2. Used for validation and lookup.

(c) List two:

(i) effects of file insecurity

**Solution:**

1. Data loss or corruption.
2. Unauthorized access to sensitive information.

(ii) methods of securing files.

**Solution:**

1. Using encryption.
2. Implementing access controls.

**52. (a)** Define the term system development cycle.

**Solution:** The system development cycle is a structured process used to develop information systems, which involves stages such as planning, analysis, design, implementation, and maintenance.

(b) List four stages involved in the system development cycle.

**Solution:**

1. Planning.
2. Analysis.
3. Design.
4. Implementation.

(c) State four qualities of a good program.

**Solution:**

1. Correctness.
2. Efficiency.
3. Maintainability.
4. Readability.

**53.** (a) List the two main constituents of a computer.

**Solution:**

1. Hardware.
2. Software.

(b) State four characteristics of a computer.

**Solution:**

1. Speed.
2. Accuracy.
3. Automation.
4. Storage capacity.

(c) In a tabular form, categorize each of the following statements into either data or information:

(i) It is not significant alone by itself;

**Solution:** Data

(ii) It is significant by itself.

**Solution:** Information

(iii) It is obtained through observations and recordings.

**Solution:** Data

(iv) It is obtained through analysis.

**Solution:** Information

**54.** (a) Define algorithm.

**Solution:** An algorithm is a finite set of well-defined rules or instructions to solve a problem or perform a task.

(b) State three characteristics of an algorithm.

**Solution:**

1. Finiteness.
2. Definiteness.
3. Effectiveness.

(c) Write an algorithm for finding the average of numbers, when the sum of the numbers is given.

**Solution:**

1. Start.
2. Input the sum of the numbers (S).
3. Input the count of the numbers (N).
4. Calculate average =  $S / N$ .
5. Output average.
6. End.



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