

WAEC GCE COMPLETE COMPUTER PAST QUESTIONS 2024-2025

1. The first calculator was built by?
 - A. Marie Jacquard
 - B. Blaise Pascal
 - C. Charles Babbage
 - D. John Napier
2. A similarity between data and information is that both?
 - A. can be displayed on the monitor
 - B. are computer inputs
 - C. are processed facts
 - D. are computer results
3. The computer hardware can be classified into
 - A. ALU and Control Unit
 - B. System Unit and Peripheral
 - C. Central Processing Unit and Control Unit
 - D. Input and Output Units
4. The outcome of a processed data in a computer is known as
 - A. raw fact
 - B. Information
 - C. database
 - D. computer result
5. Which of the following devices is not a micro computer?
 - A. Note book
 - B. Laptop
 - C. EDVAC

D. Desktop

6. Which of the following computing devices did not exist in the pre-computing age to the 19th century?

A. Napier's bone

B. Abacus

C. ENIAC

D. Slide Rule

7. The computing devices invented by Charles Babbage are?

A. Difference Engine and Abacus

B. Analytical Engine and Slide Rule

C. Abacus and Slide Rule

D. Analytical and Difference Engines

8. In a computer, the sets of instruction that direct it in performing a particular task is called?

A. information

B. program

C. data

D. file

9. The property of a disk that determines the amount of data it may contain is?

A. size

B. volume

C. storage capacity

D. storage power

10. Which of the following items best describes the term hardcopy?

A. Print out

B. Written on a hardboard

C. Information stored on a hard disk

D. Amount of data

11. Which of the following is not an output device?

- A. Plotters
- B. Speakers
- C. Projectors
- D. Webcams

12. Which of the following signifies the correct association between a hardware component and its functions?

- A. Mouse to input
- B. Monitor to print
- C. CPU to storage
- D. Hard disk to processing

13.

Fig. 1 is a logic gate. Use it to answer this question.

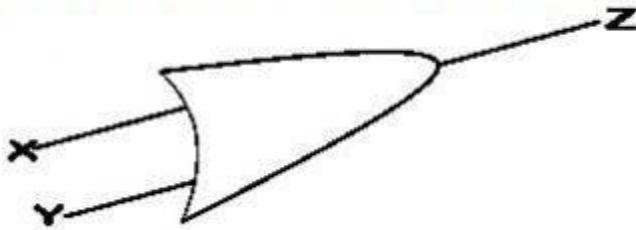


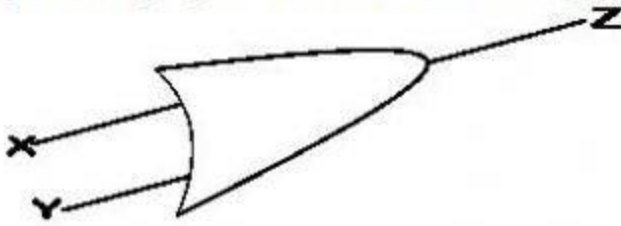
Fig 1 above is a logic gate. Use it to answer the question below

Fig 1 represents _____?

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

14.

Fig. 1 is a logic gate. Use it to answer this question.



In Fig. 1, X, Y and Z respectively represent

- A. Input, Output and Input signals
 - B. Output, Output and Input signals
 - C. Output, Input and Output Signals
 - D. Input, Input and Output signals
15. Which of the following software is best suitable for keeping records during national population census?
- A. Word Processing
 - B. Spreadsheet
 - C. Graphic
 - D. Database
16. A major function of system software is _____?
- A. Collection of Files
 - B. Translation of machine language into machine code
 - C. File management
 - D. Arrangement of files in ascending order
17. An advantage of Graphical User Interface (GUI) over Disk Operating System (DOS) is that it allows the use of _____?
- A. Diskette
 - B. Keyboard

- C. Mouse
- D. Monitor

18. Which of the following methods is not suitable for securing files?

- A. Use of backup
- B. Use of antivirus
- C. Saving documents without a password
- D. Proper labelling of storage devices

19. Which of the following programming languages needs no translator for it to run?

- A. High-Level Language
- B. Low Level Language
- C. Machine Language
- D. Assembly Language

20.

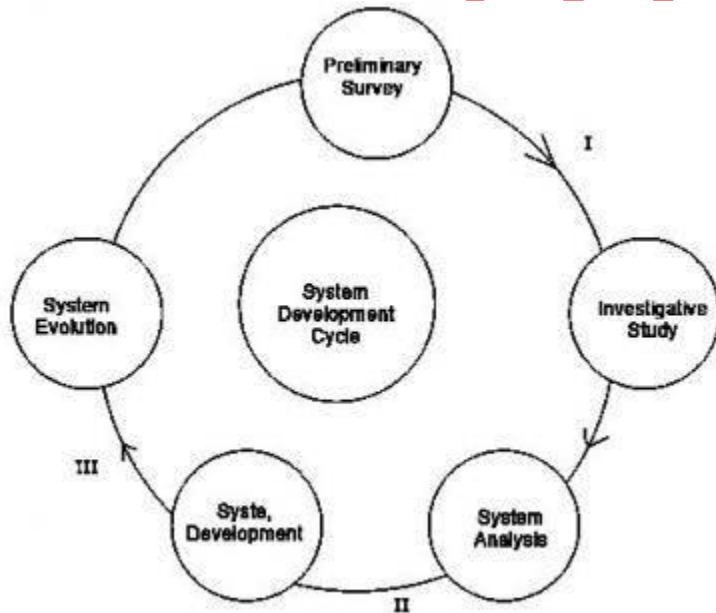


Fig.2 is a system development cycle. Use it to answer the question below

The path labelled I is the _____?

- A. System design

- B. System implementation
- C. Study review
- D. Feasibility study

21.

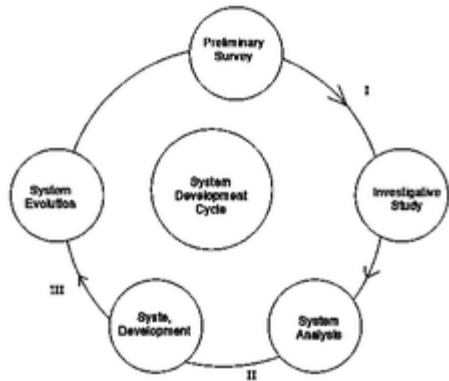


Fig.2 is a system development cycle. Use it to answer the question below

The path labelled II is the _____?

- A. System design
- B. System implementation
- C. Study review
- D. Feasibility study

22.



Fig.2 is a system development cycle. Use it to answer the question Above

The path labelled III is the _____?

- A. System design
- B. System implementation
- C. Study review
- D. Feasibility study

23.

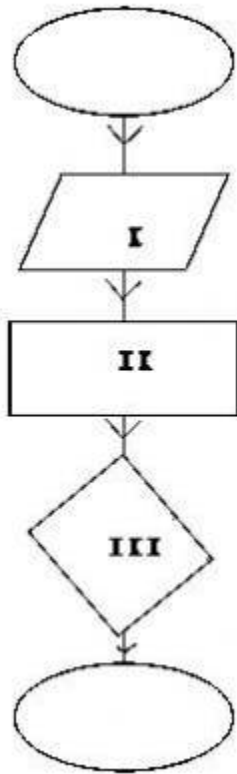


Fig.3 is a flowchart. Use it to answer the question below

The part labelled I represents _____

- A. Begin/Start Symbol
- B. Process/Action Symbol
- C. Read/Write Symbol
- D. Stop/End Symbol

24.

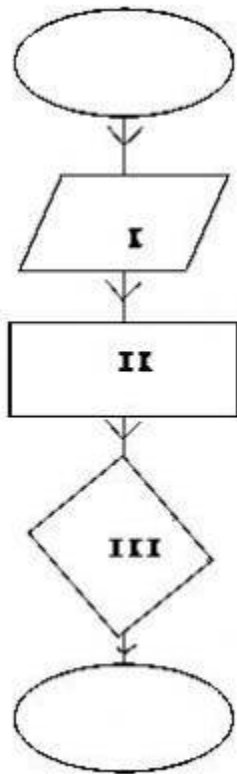


Fig.3 is a flowchart. Use it to answer the question below

The part labelled II represents _____

- A. Decision Symbol
- B. Read/Write Symbol
- C. Process Symbol
- D. Stop/End Symbol

25.

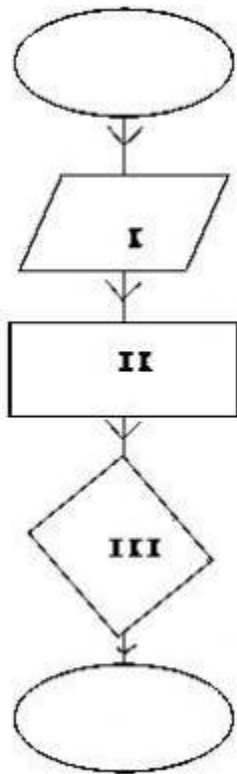


Fig.3 is a flowchart above. Use it to answer the question below

The part labeled III represents _____

- A. Process?Action Symbol
- B. Decision Symbol
- C. Read/Write Symbol
- D. Stop Symbol

26. The acronym HTTP stands for _____

- A. Hyper Text Transfer Protocol
- B. Higher Transfer Text Protocol
- C. Hard Text Transfer Protocol
- D. Higher Text Transfer Protocol

27. In ring topology, the computer that is allowed to transmit data possesses the _____

- A.** Packet
- B.** Data
- C.** Access method
- D.** Token

28. The most cost-effective and secure way of transmitting confidential messages among the employees of an organization is the _____

- A.** Electronic notice boards
- B.** Teleconferencing
- C.** E-mail
- D.** Social networks

29. The application software which allows information available on the internet to be obtained is called _____

- A.** Browser
- B.** World Wide Web
- C.** Spreadsheet
- D.** Internet Protocol

30. A modem and a telephone connection are provided. Other things needed to be able to connect a computer to the internet are _____

- A.** ISP account and Utility software
- B.** Browser and ISP account
- C.** ISP account and Network
- D.** Browser and Printer

31. Which of the following is employed in the transfer of data between computers and a network?

- A.** Fiber optics
- B.** Male connector

C. Female Connector

D. USB Port

32. Which of the following software can be used for graphic production?

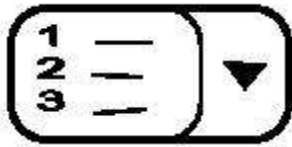
A. DOS Editor

B. PC Writer

C. Coreldraw

D. Acrobat Reader

33.



In word processing, the icon in Fig.4 is used for _____

A. Paging

B. Line Spacing

C. Numbering

D. Bulleting

34. Which of the following items is not located on the MS Word menu bar?

A. Home

B. Open

C. View

D. Mailings

35.

Use Table 3 to answer the questions below

	A	B	C	D	E
1	BOOK SUPPLIED TO SENIOR HIGH SCHOOLS				
2		MATHS	ICT	ENGLISH	
3	SHS1	3450	4500	5678	
4	SHS11	8765	6580	9000	
5	SHS111	2456	4009	4400	

In table 3, the content of cell C5 _____

A. 2456

B. 4009

C. 4400

D. 3450

36. Use Table 3 to answer the questions below

	A	B	C	D	E
1	BOOK	SUPPLIED	TO SENIOR	HIGH	SCHOOL
2		MATHS	ICT	ENGLISH	
3	SHS1	3450	4500	5678	
4	SHS11	8765	6580	9000	
5	SHS111	2456	4009	4400	

The number of cells that contain data in row 1 is _____

- A. 1
- B. 3
- C. 5
- D. 7

37. Use Table 3 to answer the questions below

	A	B	C	D	E
1	BOOK SUPPLIED TO SENIOR HIGH SCHOOLS				
2		MATHS	ICT	ENGLISH	
3	SHS1	3450	4500	5678	
4	SHS11	8765	6580	9000	
5	SHS111	2456	4009	4400	

Which cells in table 3 contain numeric data with the least value?

- A. A5
- B. B5
- C. C5
- D. D5

38. In changing the storage location of a file, the command to use is _____

- A. ctrl + S keys
- B. 'save' command
- C. 'save as' command
- D. alt + F, then save

39. Which of the following statements is true about registers?

- A. It is storage area around CPU

- B. It is situated beside the CPU
- C. It is situated beside the memory
- D. It is a special high speed storage area within the CPU

40. The Instruction fetched into the CPU is decoded by the _____

- A. Primary memory
- B. Program counter
- C. ALU
- D. Control unit

41. The process of restarting a computer is known as _____

- A. Cold booting
- B. Warm booting
- C. Resume booting
- D. Restart booting

42. Evaluate the BASIC statement:

LET $Z = 4 * W^2 + 2 * Y$

Given that $W = 5$ and $Y = 10$

- A. 50
- B. 80
- C. 100
- D. 120

43. Given that $26_{10} = X_2$, X is _____

- A. 11011
- B. 11010
- C. 11110
- D. 10111

In hexadecimal number system, B, D, E represent_____

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

45. The conversion of 11001_2 to base 10 equals_____

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

46. The transaction file can also be described as _____

- A. Master File
- B. Movement file
- C. Reference file
- D. Historical file

47. Which of the following statements is not true about a computer file?

- A. It is very fast to access any record within a file
- B. It is created electronically
- C. Initial setup is inexpensive
- D. File creation and access are less laborious

48. An advantage of sequential access over serial access is that_____

- A. Sequential file is slow
- B. Sequential file is detailed
- C. Sequential file does not use key
- D. Individual records can be located more quickly

49. The Use of electronic systems to send an unsolicited e-mail to someone's address is known as _____

- A. Hacking
- B. Spamming
- C. Internet fraud
- D. Piracy

50. Which of the following ideals is protected by copyright?

- A. Ideas
- B. Profit
- C. Expression of ideas
- D. Inexperience

51. Quantitative data can exist in

- A. continuous form only
- B. continuous and discrete forms
- C. nominal and ordinal forms
- D. ordinal form only

52. Data created by the user is called

- A. primary data
- B. qualitative data
- C. quantitative data
- D. secondary data

53. The sequence of operation of a computer is

- A. accept data, process data and produce output
- B. accept data, produce data and produce information
- C. produce data, supply data and produce output

D. process data, produce data and display information

54. Which of the following descriptions is not true about data?

A. It can be converted to information

A. is a collection of raw facts and figures

C. is unorganized

D. is used for decision making

55. Which of the following statements is true about super computers? They

A. can fit on a single small chip

B. are easily affordable

C. can process billions of operations in a second

D. are found across various homes and offices

56. The *Slide Rule* is accurate to

A. 1-2 decimal places

B. 3-4 decimal places

C. 5 decimal places

D. 6 decimal places

57. What factors will motivate a field engineer into choosing a *notebook computer* over a *desktop computer*?

A. Cost, convenience and battery life

B. Cost, size and convenience

C. Size, convenience and battery life

D. Size, cost and battery life

58. A collection of wires through which data are transmitted from one part of the computer to another is known as

A. address

B. bus

C. driver

D. register

59. The total possible combinations of the input variables for a logic gate containing three input variables is

A. 3

B. 4

C. 8

D. 12

60. What is the least number of 750 MB capacity CD-ROM discs needed to transfer 10 GB size file?

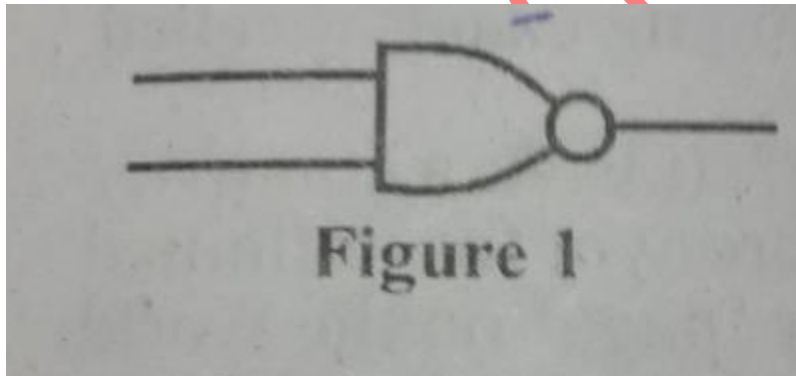
A. 75

B. 31

C. 14

D. 13

61.



The logic gates represented in Figure 1 is called

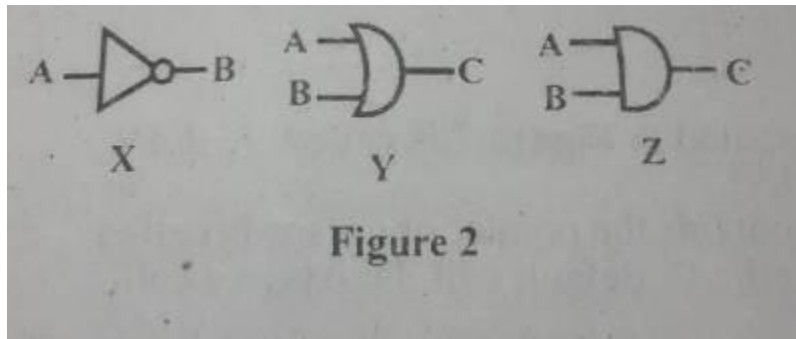
A. AND gate

B. NAND gate

C. NOR gate

D. OR gate

62.

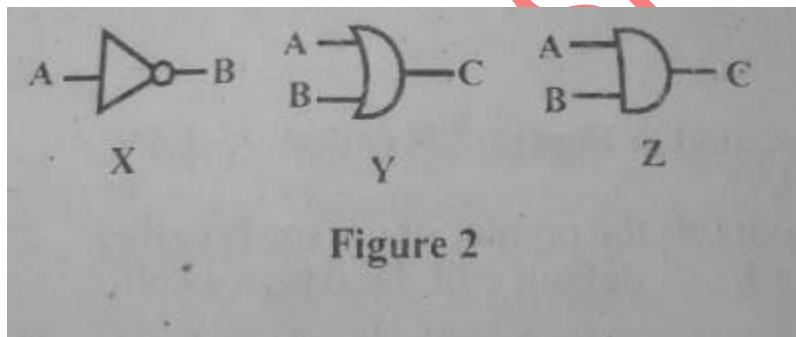


Use the logic gate in Fig 2 to answer question 12.

Which of the logic gates will give an output opposite to the input state?

- A. X
- B. Y
- C. Z
- D. X and Y

63.

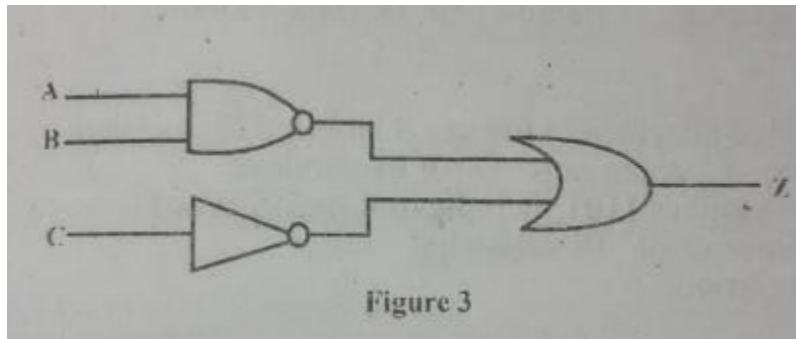


Use the logic gate in Fig 2 to answer question 13.

Which of the following statements is true about logic gates X and Y?

- A. They both have multiple output variables
- B. The output state of each depends on the input state
- C. The output is true only if all inputs are true
- D. They are both equivalent gates.

64.



The logical equation for the logic circuit in Figure 3 is

- A. $A+B^- C^-$
- B. $Z=A.B+C$
- C. $Z=A+B.C$
- D. $Z=A.B^- + C^-$

65. The operation of a computer and peripherals attached to it is controlled by

- A. application
- B. hardware
- C. live ware
- D. system software

66. COBOL was developed for

- A. business operations
- B. game developers
- C. mobile application developers
- D. search engines optimization

67. The operating system performs the following operations except

- A. organization of data
- B. resource allocation
- C. creation of data

D. arrangement of files

68. The fundamental purpose of the BIOS is

A. initializing and testing hardware components

B. testing the system performance

C. updating the system performance

D. saving the operating system's file

69. The IF... THEN statement in BASIC is called

A. an assignment statement

B. an object

C. a class

D. a control structure

70. The use of natural language and symbols to write instructions for the computer is called

A. machine language programming

B. assembly language programming

C. algorithm language programming

D. high level language programming

71. Which of the following stages of the SDLC is post-operational stage?

A. Analysis

B. Design

C. Investigation

D. Maintenance

72. The expression $5 + 3 * 4 / 2 - 3^2$ in QBASIC evaluate to

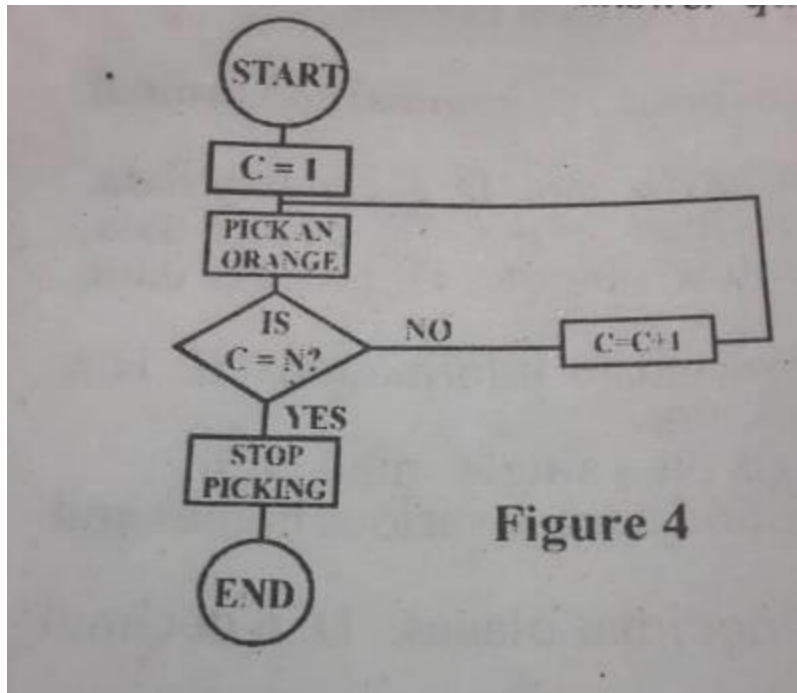
A. 7

B. 4

C. 2

D. 1

73.

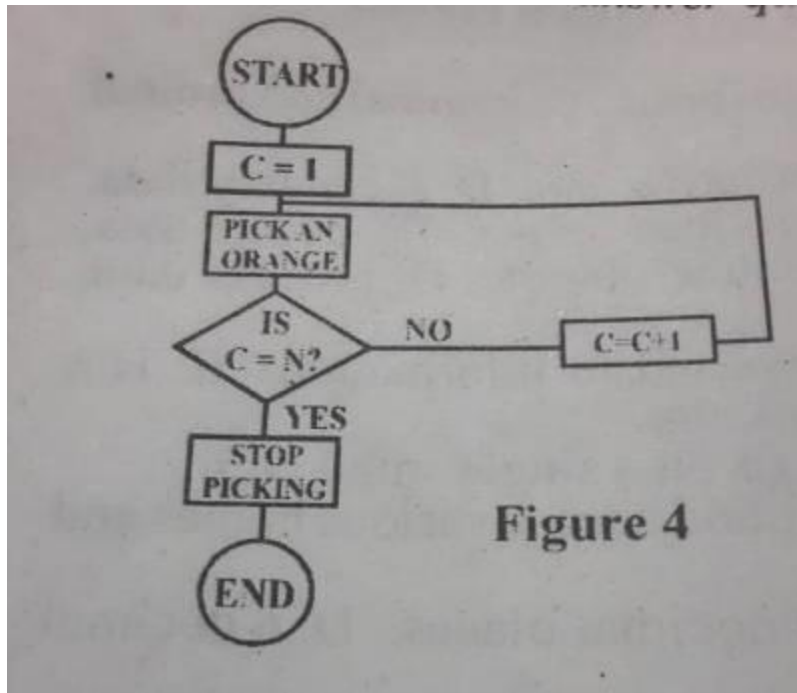


Use figure 4 to answer question 23

The basic problem with the flow chart is that it has

- A. no direction
- B. no algorithm
- C. END is a process
- D. improper branch out

74.

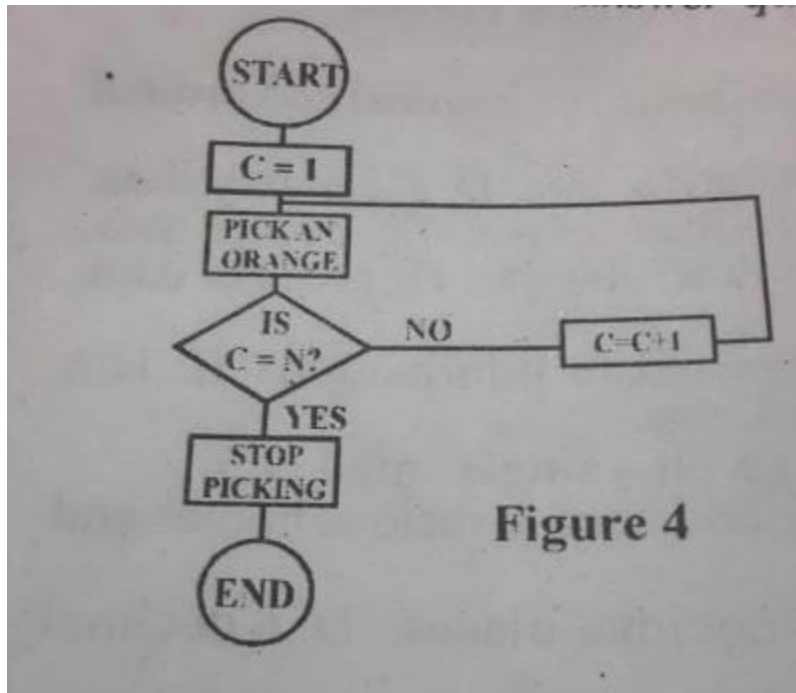


Use Figure 4 to answer question 24

What activity is the flowchart made to represent?

- A. How to pick an orange
- B. Instruction to pick an orange
- C. Evaluation on how to pick an orange
- D. Number of times to pick an orange

75.



Use Figure 4 to answer question 25

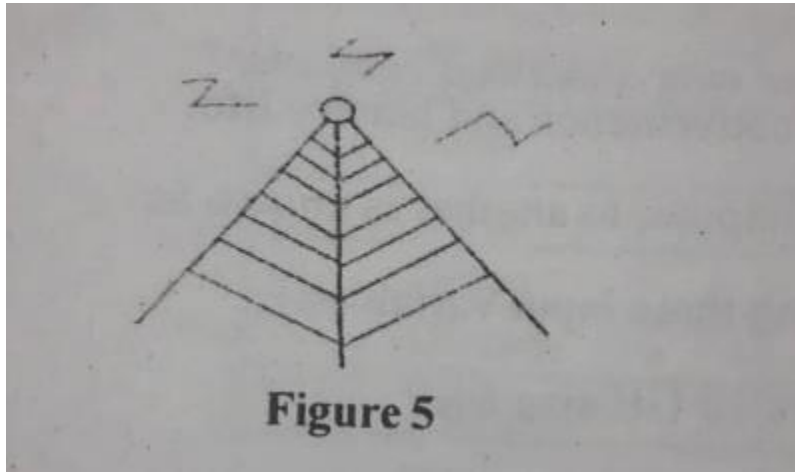
If N in the flowchart is represented by 10, which of the following conditions is not true?

- A. If $C > 10$, do not pick orange.
- B. If $C = 10$, stop picking orange
- C. If $C < 10$, keep picking orange
- D. If $C = 10$, continue picking orange

76. A computer system on the network that stores pages, takes request from clients as well as send out information is called a

- A. client
- B. web page
- C. web server
- D. website

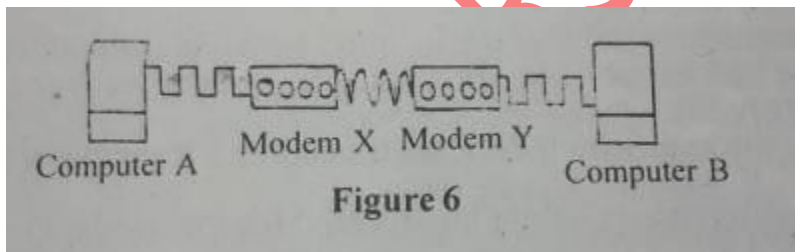
77.



The device in Figure 5 uses a transmission method called

- A. broadcast
- B. podcast
- C. multicast
- D. unicast

78.



In Figure 6 the signal from modem X to modem Y is

- A. analogue
- B. digital
- C. imaginary
- D. aperiodic

79. The "/exams" in the web address; <https://www.waec.org.ng/exams> is called

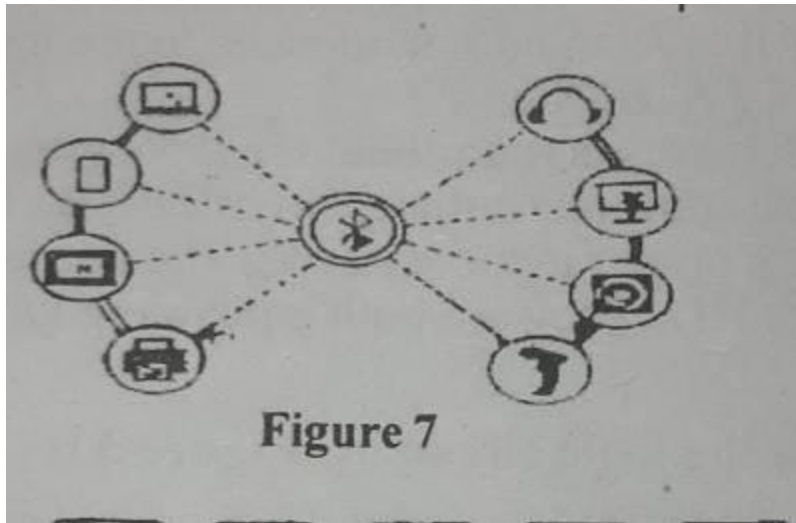
- A. domain name

- B. path
- C. port
- D. subdomain

80. Which of the following statements about URL is true? It is

- A. a computer software program
- B. a type of web server
- C. an acronym for unlimited resources for learning
- D. the address of document or 'page' on the world wide web

81.



The type of network represented in Figure 7 is called

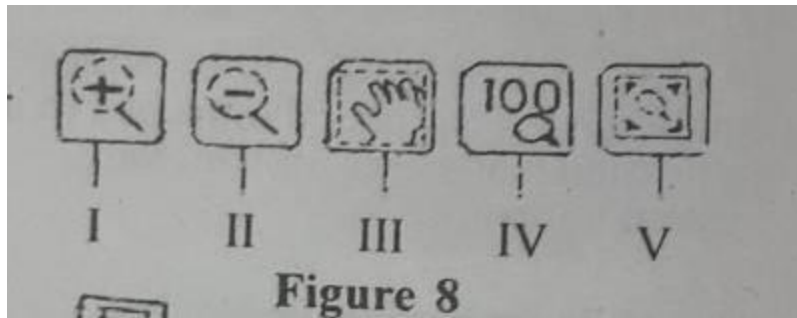
- A. LAN
- B. MAN
- C. PAN
- D. WAN

82. In MS Excel, the cell that contains the pointer or cursor is called

- A. active cell
- B. current cell
- C. default cell

D. passive cell

83.



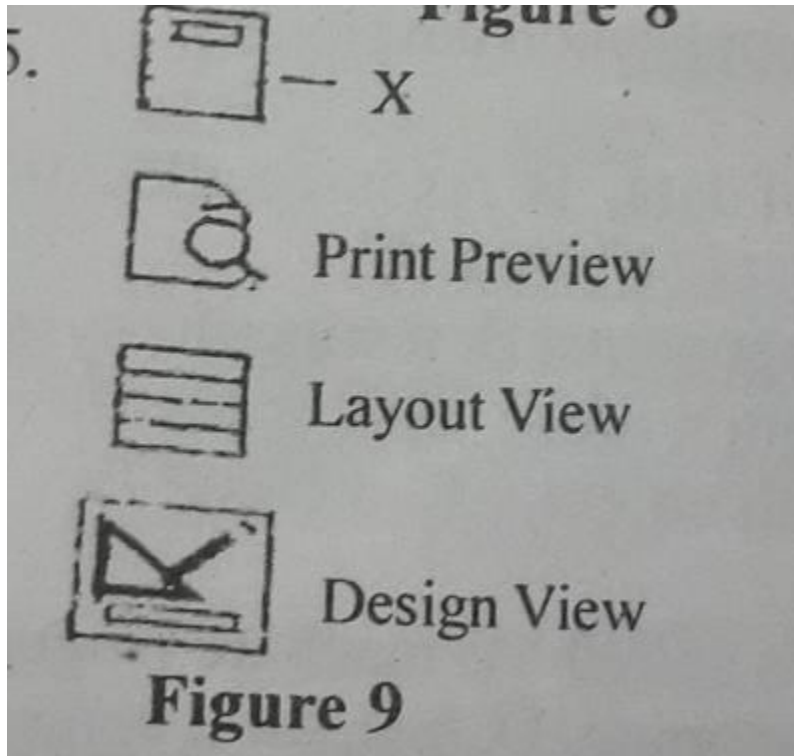
The part of the graphic interface in Figure 8 labelled V is called

- A. pan
- B. zoom in
- C. zoom out
- D. fit to window

84. The figure 2 in the number 11012 is indicated in MS Word using a feature called

- A. superscript
- B. subscript
- C. root
- D. exponentiation

85.



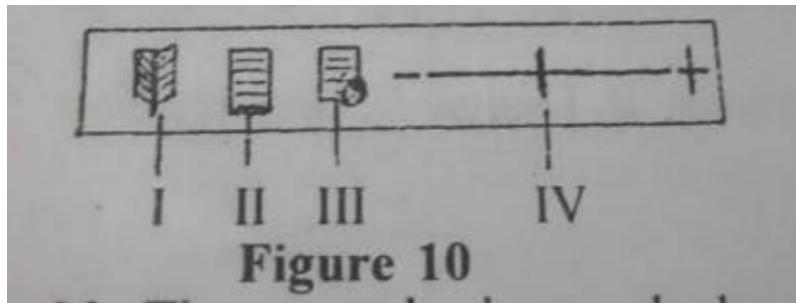
The part of the MS Access interface labelled X in Figure 9 is called

- A. Report view
- B. Report wizard
- C. Query design
- D. Query view

86. Which of the following formulas will display the current seconds past the minute as the clock in MS Excel?

- A. =MINUTES()
- B. =MINUTES(NOW())
- C. =MINUTE(YEAR())
- D. =MINUTES(HOUR(NOW()))

87.



The part of the MS Word interface labelled II in Figure 10 is called

- A. Read mode
- B. Print Layout
- C. Proofing error
- D. Web layout

88. What type of relationship can you deduce from the statement *a department has many employees*?

- A. One-to-one
- B. One-to-many
- C. Many-to-many
- D. Many-to-one

89. The screen background where icons and windows are displayed is GUI is called

- A. explorer
- B. desktop
- C. opening screen
- D. homepage

90. The windows shortcut key for closing an active application is

- A. Alt+F4
- B. Ctrl+Alt+Del
- C. Ctrl+Esc.

D. Ctrl+Shift+Del

91. Changing the default settings or appearance of the Taskbar in windows by a user is known as

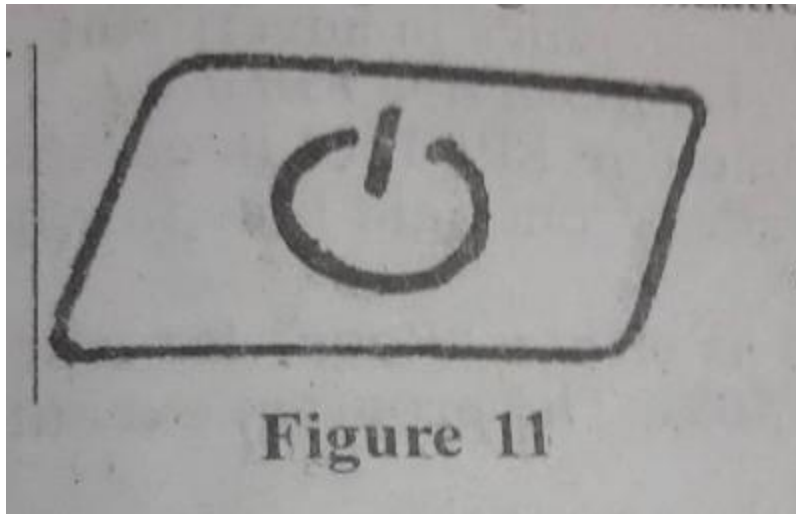
A. customization

B. designing

C. generalization

D. globalization

92.



The part of the computer system shown in Figure 11 is used to

A. perform memory test

B. power on or off the computer

C. print a document from the computer

D. reset the computer to factory setting

93. A single character in an EBCDIC encoding system can be represented using

A. 4 bits

B. 6 bits

C. 8 bits

D. 16 bits

94. Evaluate $10011_2 - 1111_2$

- A. 00010_2
- B. 00100_2
- C. 01000_2
- D. 10000_2

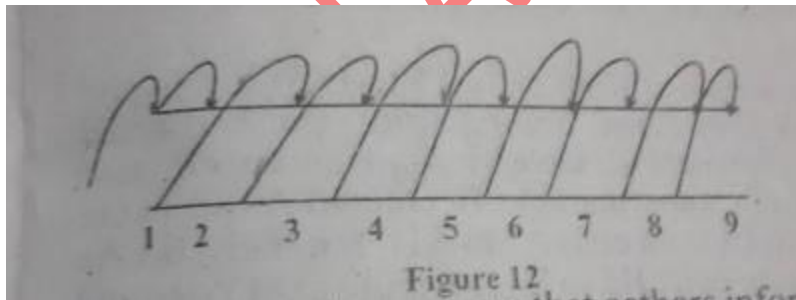
95. The binary number 0.1101 in decimal is

- A. 0.8125
- B. 0.8215
- C. 0.8225
- D. 0.8512

96. To prevent unforeseen data loss, a user must

- A. edit the data
- B. create the data
- C. backup the data
- D. defragment the data

97.



The file access method shown in Figure 12 is called

- A. hashed access
- B. indexed access
- C. random access
- D. sequential access

98. Which of the following options is not a similarity between *computer file* and *manual file*?
Both can

- A. be accessed
- B. be retrieved
- C. store multimedia
- D. contain information

99. A computer program that gathers information about a person or organization without their knowledge or consent is known known as

- A. adware
- B. time bomb
- C. trojan horse
- D. spyware

100. The following actions are the effects of virus infection in a system except

- A. deletion of files
- B. slow operation
- C. hard disk failure
- D. display of unwanted messages

101. (a) What are "Reports" in a database system?

(b) List four (4) ways in which Reports can be viewed in database management system.

(c) Outline the steps to prints a Report in MS Access

Perform the following conversions in the stated number bases;

102. (a) AB_{16} to Octal system

(b) 1110111.101_2 to Denary system

(c) 507_2 to Binary system.

103. (a)(i) What is Universal Serial Bus (USB)?

(ii) State two benefits of using USB connection between a computer and another device.

(b) In Table 1, three storage devices are described, Use it to answer questions 3(b)(i) and 3(b)(ii).

(i) In column 2, name the storage device being described in column 1.

(ii) Show the category of storage device being described in column 1 by ticking in any of the column 3, 4 or 5

SN	1	2	3	4	5
	Description of Storage Device	Name of Storage Device	Category of Storage Device		
			Primary	Secondary	Offline
1	Magnetic storage medium which is composed of a thin flexible disk sealed in a square plastic carrier.				
2	Optical media - which uses one spiral track. Red lasers are used to read and write data on the media surface and it makes use of dual-layering technology to increase the storage capacity to over 1 GB.				
3	Non-volatile memory chip which contents cannot be altered. It is often used to store the start-up routines in a computer (e.g the BIOS).				

104. (a)(i) Define computer graphics.

(ii) List two applications of computer graphics in advertising.

(b) Give one use of the following computer graphics application tools;

(i) Interactive Fill Tool (ii) Texture Fill Tool (iii) Envelops Tool (iv) Extrude Tool

(c) Name one Fill Tool in computer graphic application which is needed to (i) create a background that is faded from light blue to white (ii) fill an object with two colours that blend from one to another.

105. (a) Match each type of ICT in Table 1 with its relevant 1.

ICT Type	communication sector.
Satellite communication	Radio
Broadcasting	Internet
Data network	GSM
Telecommunication	video conferencing

(b) List three computing devices that belong to each of (i) 19th; and (ii) 20th century periods.

106. (a) List: (i) three application areas of a word processing program;

(ii) three types of data item.

(b) identify program; the four data types available in Table 2.

Table 2

Student I.D.	Name	Date of Birth	Score in Computer Studies	Gender
A 00022	Odi, G. A	13/10/97	38	M
C 00021	Zakari, M.	15/05/98	71	M
B 00023	Ngozi Tella	16/09/96	62	F

107. (a) (i) Define Information and Communication Technology. (ii) State three uses of Information and Communication Technology in the banking sector.

(b) State the full meaning of the following: i) LAN; (ii) GPS; (iii) IP

108. (a) List three criteria that are used in classifying file.

(b) State: (i) two advantages and two disadvantages of computer files; (ii) three methods of file security.

109. (a) Define programming language.

(b) Write the 5 following mathematical expressions in BASIC notation:

(i) $x(w + y)^2$ (ii) ab/cd (ii) $p = 2(1+b)$.

(c) Write a simple BASIC program to calculate the area (A) of a rectangle with length (l) and breath (b).

(d) List two levels of programming language.

110. The is found in the CPU of a computer.

- A. main memory
- B. modem
- C. mother board
- D. register
- E. zip drive

111. In order to find and load a file that has been saved, you need to select the ... Command.

- A. close
- B. new
- C. open
- D. recycle
- E. save

112. The process of is difficult without computer in transportation system.

- A. accommodation
- B. loading
- C. repair
- D. reservation
- E. ticketing

113. Which of the following is not among the features of presentation package?

- A. Animation
- B. Insertion of range and cell
- C. Insertion of video and audio
- D. Slide

E. Slide show

114. The central processing unit is connected to the?

A. expansion boards

B. expansion slots

C. memory chip

D. mother board

E. system unit

115. Which of these packages is appropriate for preparing payroll of workers?

A. CorelDraw

B. Microsoft Access

C. Microsoft Excel

D. Microsoft Word

116. In a worksheet, a set of data is called?

A. Column range

B. Data base

C. Data file

D. Data range

E. Row range

117. In Microsoft Word, the background of word document is?

A. always the same for the entire document

B. always white in colour

C. automatically give any colour

D. either white or black colour

E. the colour you pre-set under the option menu

118. 1 megabyte is equivalent to kilobytes?

- A. 1000
- B. 1024
- C. 1034
- D. 1204
- E. 1304

119. Which of these is not a logic comparison symbol in computer studies ?

- A. =
- B. <
- C. >
- D. <=
- E. ^

120. The transfer of information from the Internet to your computer is called?

- A. Copy
- B. Documentation
- C. Download
- D. Retrieval
- E. Upload

121. Every computer system connected to the Internet must have a unique address?

- A. Domain name
- B. Instant message
- C. Internet protocol
- D. Internet relay
- E. Internet service

122. Read Only Memory (ROM) is a kind of..... storage?

- A. Disk drive
- B. Flash drive
- C. Permanent
- D. Smart card
- E. Temporary

123. In a computer system, SQL, simply means Query language? Sample B. Simple C. Stratified
D. Structured E. Summary

- A. Sample
- B. Simple
- C. Stratified
- D. Structured
- E. Summary

124. We can improve computer security by the use of?

- A. account number
- B. ID number
- C. layout
- D. password
- E. user names

125. The fourth generation programming language includes the following except?

- A. Borland Delphi
- B. Java
- C. Oracle reports
- D. Postscript
- E. SQL

126. What is the other word used to describe browsing?

- A. Cyber cafing
- B. Pinging
- C. Searching
- D. Surfing
- E. Uploading

127. When a file or folder is deleted, it goes to the?

- A. Hard disk
- B. Memory
- C. Monitor
- D. Recycle bin
- E. System unit

128. Search engines are used for the following except?

- A. finding pages of information or data.
- B. downloading educational material
- C. displaying advertisement
- D. downloading music and videos
- E. handling virus attacks

129. The mechanical counting device called pascaline was invented by..... pascal?

- A. Blaize
- B. Bloom
- C. John
- D. Philip
- E. Susan

130. What is the decimal equivalent of the binary number 10110111?

- A. 180
- B. 181
- C. 183
- D. 184
- E. 186

131. Any document saved into a disc is referred to as a/an?

- A. field
- B. file
- C. folder
- D. icon
- E. record

132. ROM is also known as?

- A. Adapter
- B. firmware
- C. Network
- D. Semi conductor
- E. Slot

133. Which of the following is not a function of symbolic DOS command?

- A. CLS:
- B. MD:
- C. RD:
- D. TYPE:
- E. VER:

134. A calculating machine that is made of hardwood with cursor of glass and metal is called?

- A. Abacus
- B. Difference Engine
- C. Pascaline
- D. Punched Card
- E. Slide Rule

135. The speed of a processor is measured in?

- A. Kilobyte
- B. Kilohertz
- C. Megabyte
- D. Megahertz
- E. Megawatt

136. In the I.P.O cycle, P stands for?

- A. pack
- B. pointer
- C. procedure
- D. processing
- E. programming

137. Which of the these is not among the file organization?

- A. Indexed
- B. Parallel
- C. Random
- D. Sequential
- E. Serial

138. The logical unit of transfer between the backing storage and main memory in file organization is called?

- A. block
- B. bucket
- C. hash
- D. hit
- E. partial

139. The four standard ports include the following buses, except?

- A. fast infrared
- B. high performance serial
- C. parallel
- D. serial
- E. universal serial

140. By default in Microsoft word, your document prints in .. mode?

- A. landscape
- B. page setup
- C. portrait
- D. print view
- E. vertical

141. What displays the content of the active cell in excel?

- A. Formula bar
- B. Name box
- C. Range
- D. Row headings
- E. Task pane

142. How do you find and load a file that has been saved? select command.

- A. close
- B. file
- C. new
- D. open
- E. save

143. If $P = 1$ and $Q = 1$, find the value of $\text{NOT}(P \text{ and } Q)$.

- A. 0
- B. 0 and 1
- C. 1
- D. 1 and 0
- E. 1 and 1

144. The distribution of video and audio content to a dispersed audience through electronic media is called?

- A. broadcasting
- B. communication
- C. information
- D. messages
- E. news

145. Which of these characteristics of languages is common to all computer programs?

- A. It uses symbolic storage address
- B. Machine dependence
- C. Uses instructions that seem like English
- D. Uses mnemonics
- E. Uses special codes

146. The is added to a host computer hardware in order to expand its abilities?

- A. input devices
- B. monitor
- C. peripheral
- D. scanner
- E. webcam

147. The computer that features a Liquid Crystal Display (LCD) is known as Computer?

- A. desktop
- B. digital
- C. hybrid
- D. laptop
- E. notebook

148. The following are examples of synchronous communication, except?

- A. blogs
- B. Google talk
- C. phone
- D. video conferencing
- E. yahoo messenger

149. What is the function of control unit in the CPU?

- A. decodes program instructions
- B. generates data from the field
- C. performs logic functions
- D. stores program instructions
- E. transfers data to primary storage.

150. Integrated circuit chips used in micro computer are made of element called?

- A. chromium
- B. copper
- C. gold
- D. silicon
- E. silver

151. The common name for all input and output devices is?

- A. keyboard
- B. peripheral
- C. printer
- D. storage medium
- E. system unit

152. Lady Ada Lovelace improved upon the idea of?

- A. Babbage's analytical engine
- B. Babbage's difference engine
- C. Herman hollerinth's machine
- D. Leibnitz's calculator
- E. Pascal's arithmetic

153. Notebook is an example of Computer?

- A. macro
- B. mainframe
- C. micro
- D. mini
- E. super

154. The symbolic representation of hard disk is?

- A. B:
- B. B:1
- C. C:
- D. C:l
- E. D:

155. Which of the following circuits is used as memory device in a computer?

- A. Attenuator
- B. Comparator
- C. Flip-flop
- D. Modem
- E. Rectifier

156. AutoCAD is best used in?

- A. educating
- B. engineering
- C. journalism
- D. offices
- E. publishing

157. Change $a \frac{(b-c)^2d+2}{d+2}$ in algebraic expression to BASIC arithmetic expression.

- A. $A * b^2 - c^2 \div d + 2$
- B. $A * \frac{(b-c)^2D+2}{D+2}$
- C. $ab^2 - ac^2 \div d + 2$
- D. $A * \frac{(b-c)^2D+2}{D+2}$ Opera
- E. Python E. $AB-AC^2 / D + 2$

158. In data base, the minimum number of characters. user can input in the field is known as field?

- A.** caption
- B.** format
- C.** name
- D.** size
- E.** text

159. Which of these storage media has the lowest capacity?

- A.** CD-ROM
- B.** Flash Drive
- C.** Floppy Disk
- D.** RAM
- E.** Register

160. The full meaning of BCD is?

- A.** Basic Code Decimal
- B.** Basic Computer Decimal
- C.** Binary Coded Decimal
- D.** Binary Coded Digit
- E.** Binary Computer Decimal

161. The user chosen secret string of characters that allows access to the use of computer is called?

- A.** address code
- B.** ID-Name
- C.** password
- D.** pin code
- E.** username

162. Which of these is a specialized port?

- A.** Firewall

- B. IRDA**
- C. Parallel**
- D. Serial**
- E. USB**

163. The maximum length of 10 base T unshielded twisted pair cable in meters is?

- A. 100**
- B. 185**
- C. 500**
- D. 2000**
- E. 3000**

164. Which of these registered jacks is used in terminating phone lines?

- A. RJ 11**
- B. RJ 14**
- C. RJ 25**
- D. RJ 35**
- E. RJ 45**

165. In Microsoft Word, CTRL+ESC..... the start menu?

- A. closes**
- B. cuts**
- C. opens**
- D. redo**
- E. undo**

166. A/AN is a virus program that copies and multiplies itself by using computer networks and security flaws?

- A. Asimov 1539**
- B. Elkern**

- C. Polyboot.B
- D. Stator
- E. Worm

167. Convert 687 in decimal to base 16?

- A. 2AF₁₆
- B. 3BA₁₆
- C. 4ff₁₆
- D. BB₁₆
- E. CBC₁₆

168. The editing features in Microsoft Word include the following, except?

- A. animation
- B. format painter
- C. go to
- D. thesaurus
- E. word count

169. Which of these is not an example of a browser?

- A. Chrome
- B. Internet Explorer
- C. Mozilla
- D. Opera
- E. Python

170. (a)(i) List three classes of computer. (ii) Difference between Analog and Digital computers.

(b) Mention two types of memory.

(c) Give two examples of secondary storage.

(d) Convert 1.44MB to bytes.

171. (a) What is an operating system?

(b) Give three examples of operating system.

(c) State two differences between the floppy disk and compact disc.

(d) Write a Basic program to calculate the perimeter of a rectangle.

172. (a) Draw the AND gate and produce its truth table

(b) List two examples of an output device.

(c)(i) What is a computer virus.

(ii) Give two examples of computer virus.

(d) Convert 28C in hexadecimal to decimal number

173. (a) List two operations that can be performed on computer file.

(b) State three precautions to be taken in order to secure a computer file.

(c) State three advantages of computerized file over manual files.

(d) What is an antivirus?

174. Briefly explain the following terms: (a) website (b) protocols (c) webpage (d) e-commerce (e) e-mails.

175. (a) What is word processing?

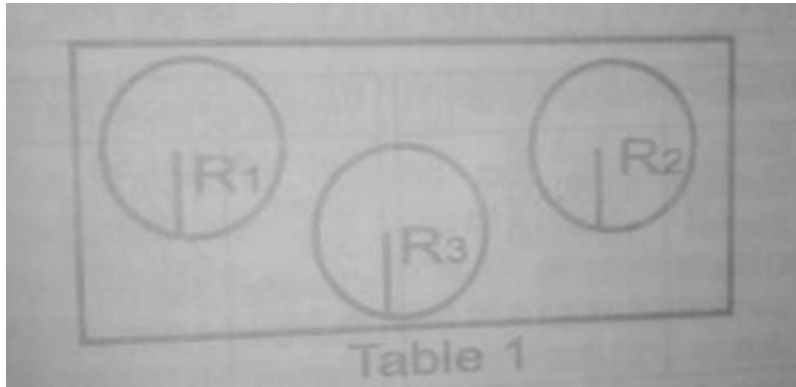
(b) Give two example of word processors.

(c) State two uses of world wide web (www)

(d)(i) List two types of cables. (ii) What is the advantage of registered jacks 11 (RJ11) over other connectors?

176. Write a QBASIC program to grade any score entered from the keyboard as either "Poor" for a score that is below 50% or "Satisfactory" for a score that is equal to or above 50%. The program execution should stop as soon as a score that is less than zero is entered.

177.



Use Microsoft Word application to reproduce the circles with lines **R1, R2 and R3** as shown in Figure 1 and perform the following tasks.

- (a) Lines **R1, R2 and R3** should be of different length.
- (b) Label **R1, R2 and R3** should be of different fonts.
- (c) You are provided with Table 1. Complete the table.

R	VALUE OF R
R1	
R2	
R3	

- (d) Group the circles in Figure 1.
- (e) Insert a text box and type in your full name as the file name
- (f) Insert a footer and type in your full name and index number
- (g) Save your work in the folder created on the desktop using your full name as the file name.
- (h) Print your work and submit to the supervisor.

178. A supermarket listed ten items on sale.

Use Microsoft Excel application to create an inventory for the supermarket.

- (a) Type in the following headings from cell A1 to F1 respectively. SN, Goods Cost Price, Selling Price, Gain/Loss and Target.

- (b) Populate the table by supplying ten different items sold in a supermarket. In column A, fill in the numbers 1 to 10 from cells A2 to A11. Similarly, list the ten items from cells B2 to B11. Supply Cost Price and Selling Price from cell B2 to B11. Supply Cost Price and Selling Price from cells C2

to C11 and D2 to D11 respectively. Note that it is possible to have some selling prices lower than the cost price. Create borders around the table.

(c) Use formula or function to calculate; (i) the gain (if the selling price is higher than the cost price) or the loss (if the cost price is higher than the selling price) of each item from cells E2 to E11

(ii) 110% of the cost price of each item from cells F2 to F11.

(d) Determine whether target is met or not by typing "target met" or "target not met" in cells H2 to H11 for each item. Note that target is met when the selling price is 110% of the cost price or more otherwise target is not met.

(e) Insert a footer and type in your full name and index number.

(f) Save your work in the folder created on the desktop using your full name as the file name.

(g) Print your work showing formulas and functions and submit to the supervisor.

179. (a) Using the star shape tool in CorelDraw, draw a 30 pts star of diameter 18 cm and fill it with grey colour.

(b) Use sharpness tool to adjust the corner sharpness of the star by 25 pts.

(c) Place three circles; circle 1, circle 2 and circle 3 with diameters 10 cm, 7.6 cm and 5.4 cm respectively inside the star.

(d) Use Text tool to type ARISE AND SHINE and place it in-between circle 2 and 3.

(e) Fill circle 2 with lemon colour and circle 3 with white colour.

(f) Place five stars inside circle 3.

(g) Group your drawing.

(h) Type in your full name as a footer.

(i) Save and print your work.

(j) Submit your printout to the supervisor

180. 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

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

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

182. 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

183. Abacus is used for?

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

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

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

185. The computer memory is, measured in?

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

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

- A. NOT gate
- B. Nor gate
- C. the inverse of the output signal
- D. the same as the output signal

187. 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

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

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

189. 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

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

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

191.

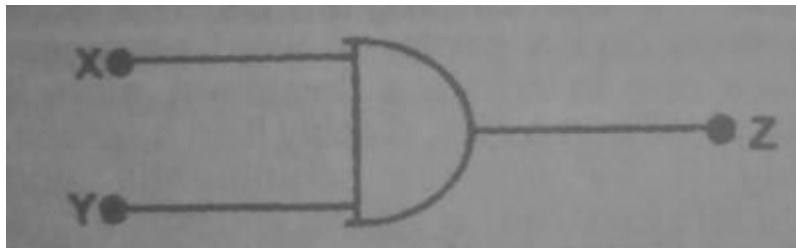


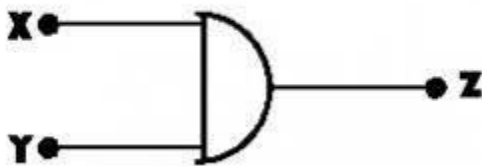
Figure 1 above is a logic gate. Use it to answer questions 12 to 14.

Figure 1 represents?

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

192.

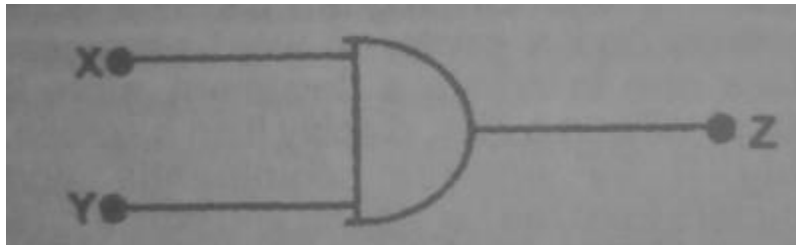
Figure 1 is a logic gate. Use it to answer this question.



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.

193.



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

194. The memory unit of the computer belongs to the?

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

195. 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.

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

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

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

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

198. The first stage in program development is problem?

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

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

- A. algorithm
- B. flow chart.
- C. process mapping.
- D. pseudo code

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

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

201. 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

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

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

203. Which of the following networks covers the widest range?

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

204. 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.

205. 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

206. In order to get to the symbol dialog box in MS-Word click on the?

- A. Home tab.
- B. Insert tab.
- C. Page Lay- out tab.
- D. View tab.

207. In a network, the workstation is usually connected to the?

- A. Hub.
- B. Modem.
- C. Router.
- D. Switch.

208. 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.

209. Which of the following is not a network device?

- A. Hub
- B. Modem
- C. Port
- D. Router

210. Which of the following is a valid e-mail address?

- A. www.itbeginswithu.org
- B. waeonline@yahoo.co.uk
- C. www.waeonline.org
- D. www.fine.gov.ng

211. 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.

212. Which of the following items changes shape depending on the task being performed?

- A. Ribbon
- B. Active tab
- C. Insertion point
- D. Mouse pointer

213. 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

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

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

215. The shortcut command used in restarting a computer is?

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

216. 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

217. 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

218. 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

219. Which of the following statements is true of encryption? It

- 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.

220. Computer ethics are important because they?

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

221. 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.

222. Which of the following statements is true of free software? It

- 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.

223. 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

224. The conversion of 11001_2 , to base ten equals?

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

225. 9_{10} is equivalent to X_8 , where X is?

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

226. 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.

227. 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	SHSI	2456	6580	5678
4	SHSII	3450	4009	4400
5	SHSIII	8765	4500	9000

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

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

228.

Use the MS-Excel table below to answer the question.

	A	B	C	D
1.	BOOK SUPPLIED TO SENIOR HIGH SCHOOLS			
2.	FORM	MATHS	ICT	ENGLISH LANGUAGE
3.	SHSI	2456	6580	5678
4.	SHSII	3450	4009	4400
5.	SHSIII	8765	4500	9000

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

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

229. (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.

230. (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.

231. (a) Define the term system development cycle. (b) List four stages involved in system development cycle (c) State four qualities of a good program

232. (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 no significant alone by itself; (ii) It is significant by itself

(iii) It is obtained through observations and recordings (iv) It is obtained through analysis.

233. (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.

234. The first calculating device is the?

- A. Abacus
- B. Census machine
- C. Difference engine
- D. Napier bones.

235. Which of the following represents features of a computer?

- I. It is constructed from electronics components.
- II. It has self regeneration capability.
- III. It has facility for storage of data and programs.
- IV. It has provision for input and output data.

- A. I, II and III only
- B. I, II and IV only
- C. I, III and IV only
- D. II, III and IV only.

236. Arrange in a hierarchical order by date, the following inventions: I. slide rule; II. pascaline; III, analytical engine; v. difference engine.

- A. I, II, IV and III
- B. II, IV, and I
- C. III, IV, II and I
- D. I, II, III and IV.

237. Which of the following is true about raw data?

- A. It is well categorized

- B.** It exists in oral form only
- C.** It exists in written form only
- D.** It cannot be relied on to make decision

238. Which of the following was used by Joseph Marie Jacquard in inventing the Loom?

- A.** Punched card
- B.** Smart card
- C.** Smart chip
- D.** Sound card.

239. Which generation of computers used vacuum tubes in their circuitry?

- A.** First generation
- B.** Second generation
- C.** Third generation
- D.** Fourth generation.

240. The full meaning of the acronym ENIAC is?

- A.** Electronic Numerical Integrator and Calculator.
- B.** Electronic Numerical Integrator and Computer
- C.** Electronic Numerical Integration Automatic Calculator
- D.** Electronic Numerical Integrated Automatic Calculator

241. The primary memory of the computer can be divided into?

- A.** register and random access memory
- B.** mass storage and read only memory
- C.** volatile memory and auxiliary memory
- D.** random access memory and read only memory.

242. A common communication pathway shared by hardware components in the computer is called?

- A.** bus

- B.** channel
- C.** firmware
- D.** register.

243. Which of the following can be described as the brain of the computer hardware?

- A.** BIOS
- B.** microprocessor
- C.** RAM chip
- D.** system clock

244. Which of the following is not a computer output device?

- A.** Disk
- B.** Plotter
- C.** Printer
- D.** Speaker

245. Data to be processed by the microprocessor is temporarily stored in the?

- A.** auxiliary storage
- B.** backing storage
- C.** main storage
- D.** random access memory.

246. The smallest unit of information representation which is addressable on the computer memory is?

- A.** 1 bit
- B.** 2 bits
- C.** 4 bits
- D.** 8 bits

247. Software is referred to as the?

- A.** generic term for computer programs

- B.** physical components of the computer
- C.** part of the computer for communication
- D.** part of the computer which is breakable

248. The software whose output is intended for the human user is called?

- A.** application software
- B.** firmware
- B.** malware
- D.** system software

249. The parts of the taskbar include: I recycle bin II start button III system tray IV quick launch toolbar

- A.** I, I and IV only
- B.** I, III and IV only
- C.** II, II and IV only
- D.** I, II, III and IV

250. The similarities between main memory and registers is that they are: I volatile II under the direct control of the user II protected by the system unit IIV for system use only?

- A.** I, II and IV only
- B.** I, III and IV only
- C.** II, III and IV only
- D.** I, I, III and IV

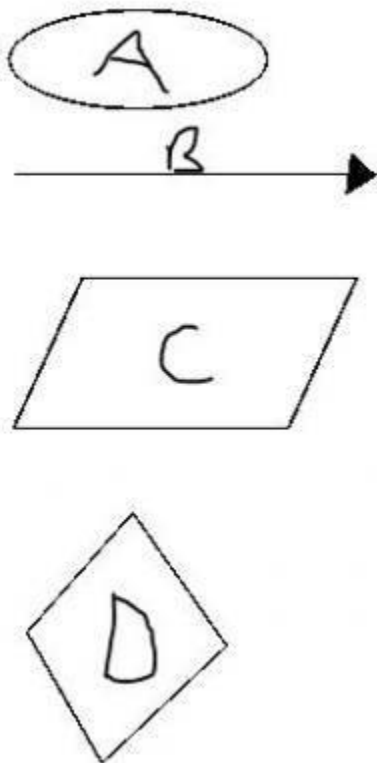
251. A pictorial representation of the logic of a program is called?

- A.** diagram
- B.** flowchart
- C.** pseudo code
- D.** software

252. A subroutine is called in a flowchart through the use of?

- A. data
- B. predefined process
- C. process
- D. terminator

253.



The symbol used to represent an execution flow in a flowchart is?

- A. A
- B. B
- C. C
- D. D

254. A suitable BASIC notation for the expression mc^2 is?

- A. $m * c^2$
- B. $m * c * 2$
- C. $m * c$
- D. $m * c * 2$

255. Use the BASIC program below to answer questions 23 to 25

10 LET K = 2

20 LET L = 9

30 LET SUM = 0

40 FOR J = K TO STEP 2

50 SUM = SUM + J2

60 PRINT "ANSWER =", SUM

70 NEXT J

80 END

How many times will the statement lines 50 and 60 be repeated?

- A. 2
- B. 3
- C. 4
- D. 5

256. Which of the following best represents the sequence of output from the program?

- A. 2,4
- B. 4, 20, 36
- C. 4, 16, 36, 64
- D. 4, 20, 56, 120

257. Use the BASIC program below to answer this question

```
10          LET          K          =          2
20          LET          L          =          9
30          LET          SUM          =          0
40          FOR          J          =          K          TO          STEP          2
50          SUM          =          SUM          +          J2
60          PRINT          "ANSWER          =",          SUM
70          NEXT          J
80          END
```

The last output that will be displayed by the program is

- A. 20
- B. 36
- C. 64
- D. 120

258. Which of the following networks can be extended to cover continents?

- A. Metropolitan Area Network .
- B. Personal Area Network
- C. Wide Area Network
- D. Wireless Area Network

259. Identify the browsers in the following list:

I telnet II netscape navigator.II opera IV mozilla firefox

- A. I, II and III only
- B. I, II and IV only
- C. II, III and IV,only
- D. I, II, III and IV

260. Trap doors and bombs are typical examples of?

- A. adware
- B. computer worms
- C. firewall
- D. trojan horses

261. The first four steps required to open e-mail account include:

I click on "Create my account"

II go to home page of the service provider

III click "create new account"

IV click on "mail"

- A. I, II, IV and III
- B. I, II, IV and II
- C. II, IV, III and I
- D. IV, II, I, and III.

262. The two main components of a radio communication system are?

- A. transmitter and terminal
- B. receiver and determinator
- C. transmitter and receiver
- D. transmitter and terminator

263. Which of the following can a traveler who finds himself in a new environment rely on for direction to his final destination?

- A. DNS
- B. GPRS

C. GPS

D. TCP

264. The default number of sheets of a workbook is?

A. one

B. two

C. three

D. four

265. The chart type that does not have the X and Y axis display is the?

A. area chart

B. bar chart

C. pie chart

D. scatter diagram

266. When a worksheet is deleted from a workbook, it is?

A. lost forever

B. sent to the recycle bin

C. sent to the original folder

D. stored permanently in main memory.

267. A block of text that is marked by the tab key when the enter key is pressed can be referred to as?

A. margin

B. paragraph

C. white space

D. word wrap

268. Principal uses of word processing software packages include:

I preparing debt articles for publication

II pre-paring reports for top management

III preparing accounts

IV preparing organizations' newsletter.

A. I, III and IV only

B. I, II and IV only

C. II, III and IV only

D. I, II, III, and IV.

269. In a database, a primary key is a field which contains?

A. text only

B. unique entries

C. duplicate values

D. numeric value only.

270. One megabyte is equivalent to?

A. one million bytes

B. two million bytes

C. three million bytes

D. four million bytes

271. Converting 4B716 to binary?

A. 0100 1010 0111

B. 0100 1011 0111,

C. 0100 1000 0111,

D. 0100 1100 0111

272. The speed of data transfer in the computer can be determined in terms of ?

- A. protocol and bus speed
- B. bus speed and width
- C. bus speed and storage media
- D. bus width and storage media.

273. The initial screen that is displayed after a computer booting is referred to as?

- A. desktop
- B. interface
- C. software
- D. taskbar

274. Which of the following is not a biometric data?

- A. finger prints
- B. password
- C. pattern of eye iris
- D. sound of the voice.

275. The main advantage of intellectual property right is?

- A. maximization of profit
- B. discovering of brilliant persons
- C. discovering of sharing
- D. encouragement of innovations.

276. The word bit refers to?

- A. the value zero or one
- B. the value zero of more
- C. central processing unit command
- D. central processing unit instructions

277. The decimal number 1024 in hexadecimal equivalent is?

- A. 24
- B. 400
- C. 3E8
- D. 8BB

278. Which of the following is true of a digital logic gate?

- A. It has at least two inputs but only one output.
- B. It has many outputs and inputs.
- C. It has at least one or more inputs but only one output.
- D. It has at least one input and two outputs

279. Which of the following is a temporary file that can be used only once and then discarded?

- A. Refresh file
- B. Master file
- C. System file
- D. Transaction file

280. Sorting of records is sufficient and a necessary condition for creating?

- A. random file
- B. indirect file
- C. sequential file
- D. indexed sequential file.

281. The illegal copying and use of proprietary/copy righted software is called?

- A. hacking
- B. spamming
- C. hardware piracy
- D. software piracy.

282. Symptoms of computer virus attack include:

I improved processing speeds; II drive light coming up without apparent reason; III unexplainable printer activity; IV the disappearance or strange files appearance on the screen

- A. I, II and III only
- B. I, III and IV only
- C. II, III, and IV only
- D. I, II, III and IV

283. (a) (i) What is a network cable?

(ii) State three types of cable used in networking

(b) Write the acronym VSAT in full.

(C) (i) Distinguish between an e-mail address and a website address.

(ii) List examples of each of: (1) e-mail address (2) website address

284. (a) (i) Define computer virus.

(i) List three types of computer network security breach.

(b) State five sources of computer network security breach

285. (a) Convert the following numbers to be stated bases:

(i) 125.625, to binary

(ii) 111011.10011, to octal

(b) Given that $X = 11011011$ and $Y = 11101101$,

(i) construct the truth table for X, Y, Z ;

(ii) draw the logic gate of $X, Y = Z$

(iii) state the value of Z .

286. (a) An electronic book is made up of 500 pages and there are 16 lines of 24,000 bits line on each page.

Complete the space it will occupy on a computer in megabytes.

(b) Give an example of auxiliary storage.

(c) In the table below:

(i) List the two main types of computer software.

(ii) Give two examples under each in 4(c)i

main type	example
i	A
	B
ii	A
	B

287. (a) State two BASIC programming keywords.

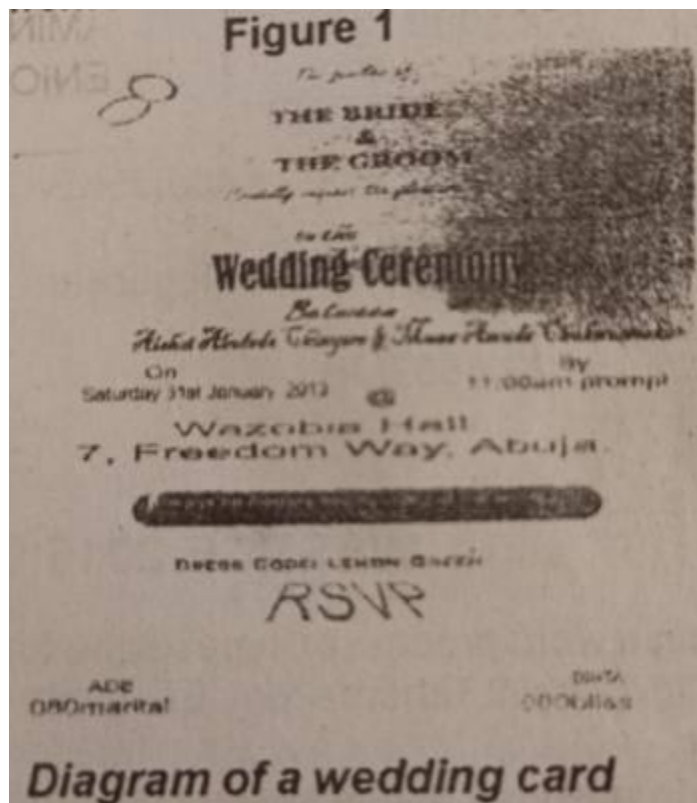
(b) Write the following equations in BASIC format:

(i) $I = \text{PRT}/100$; (ii) $Y = AX^2 + BX + C$; (iii) $Y = MX + C$

(c) Write a BASIC program that accepts mass and volume of a liquid as input from the User.

The program should compute and display the density of the liquid. Density = mass/volume

288.



(a) Using a word processor, typeset the following passage with 12 point Tahoma font: Elements of Data Processing.

The main purpose of this subject is to provide the required knowledge and business programming skill for you to effectively use data processing system and manage the data processing department of an organization.

Basic concepts of data processing, required computer systems, personnel, tools for developing data processing application and basic programming skills are also covered in this study material. This will be achieved through the following: AIMS Students should be able to:

- Explain data processing concepts, system, personnel and tools;

- Describe data processing techniques;

- Acquire skills for developing, implementing and managing data processing system.

(b) Format the passage as stated below: (i) Heading of the page: apply a 16 point font-size in upper case form; bold, centralize and underline it.

(ii) Body of the passage: change the line spacing to 1.5; align, justify.

(i) Sub-heading of the passage: bold and italicise; use text highlight colour Gray 50%

(iv) Create a bulleted list type of your choice for the text under "Aim" and format as follows: explain the data processing concepts, systems, personnel and tools; acquire skills for developing, implementing and managing data processing system; describe data processing techniques. Change the page orientation to landscape.

(d) Using the header tool, insert your full name and index number.

(e) Save the work as PROCESSING in the folder created and print.

2.(a) using a presentation program, create four blank slides with a suitable design template.

Insert a footer showing your full name and index number with font size 20 points

(b) Prepare each slide as follows.

SLIDE 1:

Type VEGETABLE as the title and format it as follows

SLIDE 2:

(i) Type the sub-title as "Health Advantages of Vegetables and format it as follows: Font type: - Arial Black; size -44

Font type: - Arial, style -bold: size-96; colour blue

(ii) Insert the following content: Vegetables enhance your body wellness. Here are some of the potential health benefits

1. Reduce the risk of heart diseases including heart attack and stroke.

2. Protect against certain type of cancer.

3. Reduce the risk of developing kidney stones.

SLIDE 3:

(i) Type sub-titles as "STATISTICS"

(ii) Insert the following tables:

Vegetable Types	% Nutrient
Orange vegetable	15
Starchy vegetable	30
Other vegetable	35

SLIDE 4:

(i) Type sub-title as "Nutrient Chart"

(ii) Create a pie-chart using the tabulated data in SLIDE 3.

(c) Save the work as CHART in the folder created and print.

3. Use a graphical application program to design a simple wedding invitation card as given in figure 1 using the listed specifications.

(a) Two wedding rings as logo. Format as shown in figure 1.

(b) THE BRIDE AND THE GROOM

Font style: Dutch 801 x BdBt

Size: 24 pt. The families of Cordially request the Size 24 pt pleasure of

Font style - Free script to the Size 31.351 pt

Wedding ceremony Font style Blernard MT Condensed Size 54.351 pt

Between Font style-Freestyle script Size 35.777 pt

Aishat Abosede Chinyere

Font style - Blackadder ITC & Size-35.647 pt

Musha Amuda Chukwuemeka Venue Font style- Arial Size 23.55 pt

Reception follows immediately Font style- Ar At the same venue RSVP font style- Arial Size 18 pt

Font style- Arial Size 37.787 pt

On Font style Arial Saturday 31st January, 2013 @ Wazobia Hall, 7, Freedom Way Abuja. Font style - Arial Size 24 pt By 11.00 a.m. prompt Size 20.607 pt

(c) Using the footer tool, insert your full name and index number.

(d) Save the work as CARD in the folder created and print.

289. The "collection of the unorganized facts and figures" is called?

- A. data
- B. file
- C. information
- D. variable

290. The census machine was invented by?

- A. Blaise Pascal
- B. Gottfried Von Leibnitz
- C. Herman Hollerith
- D. Joseph Marie Jacquard

291. A graph plotter is most suited for use in a/an?

- A. tax office
- B. immigration office
- C. population census office
- D. geographical information system.

292. A set of programs, routines and procedures that are used to operate the computer hardware is called?

- A. firmware
- B. shareware
- C. software
- D. utility

293. Which of the following can be used to write a high level program source code?

- A. Lotus 1-2-3
- B. MS Access

- C. Opera
- D. Text Editor

294. A computer that requests the services of another computer on a network is called a?

- A. client
- B. host
- C. master
- D. server

295. The available page orientation in Microsoft Word are?

- A. portrait and justify
- B. justify and right align
- C. left align and landscape
- D. portrait and landscape.

296. The copyright law is used to protect?

- A. right of men
- B. right of minors
- C. intellectual property
- D. right of Women only.

297. Which of the following components is directly located inside the computer processor?

- A. ALU
- B. BIOS
- C. RAM
- D. ROM

298. Napier's Bone was designed purposely for calculation of?

- A. sum and quotient
- B. sum and difference
- C. product and quotient

D. difference and quotient

299. The hardware component that is responsible for fetching, decoding and execution of program instruction is?

A. accumulator

B. read only memory

C. random access memory

D. central processing unit.

300. Which of the following is found on the taskbar?

A. scrollbars

B. wall paper

C. screen saver

D. quick lunch toolbar

301. A high level language program translator which converts a source code to machine readable format and compile executes it one line at a time is?

A. complier

B. debugger

C. editor

D. interpreter

302. Use the following QBASIC statement to answer questions 14 and 15.

`DIM DEPOSIT (1, 10) 14.`

The keyword DIM in the statement stands for?

A. diagram

B. diameter

C. diamond

D. dimension

303. The expression DEPOSIT (1, 10) stands for an array with?

A. 1 element

- B. 11 elements**
- C. 10 elements**
- D. no element**

304. In a star network, each node must?

- A. be connected directly to adjacent node**
- B. be connected directly to a central network hub**
- C. be connected directly to a common backbone cable**
- D. possess a token before it can transmit signal to adjacent node**

305. Which of the following views is used to create data base objects in Microsoft Access?

- A. Design view**
- B. Datasheet view**
- C. Layout view**
- D. Normal view**

306. A field chosen to uniquely identify every record in a database is?

- A. foreign key**
- B. local key**
- C. primary key**
- D. secondary key**

307.

Use the table below to answer questions 19 to 21

Character	Decimal code	ASCII CODE
N	78	1001110
O	1	1001111
T	84	11

The cell labelled I in the table represents?

A. 72

B. 74

C. 75

D. 79

308.

Us the table below to answer this question

Character	Decimal Code	ASCII Code
N	78	1001110
O	1	1001111
T	84	II

The cell labeled II in the table represents?

A. 1001101

B. 1010100

C. 1010101

D. 1010110

309. The ASCII code for the word NOT can be written as?

- A. 101010010011111001110.
- B. 100111010011111010100
- C. 100111110101001001110
- D. 100111010101001111

310. Which of the following is not a method of accessing file?

- A. Circular
- B. Random
- C. Serial
- D. Sequential

311. The advantages of a computer include that they?
I. operate at high speeds; II. think for the user; III. are accurate; IV. are credible.

- A. I, II and III only
- B. I, III and IV only
- C. II, I and IV only
- D. I, II, I and IV

312. In MS Excel, comments used in cells are called?

- A. cell tip
- B. smart tip
- C. soft tip
- D. web tip

313. Which of the following statements is not true about secondary storage media? They

- A. are volatile
- B. are non-volatile
- C. are relatively cheap

D. have storage capacity

314. Which of the file formats is supported in all windows operating systems?

A. BSDB.

B. EXT

C. FAT

D. NTFS

315. Which of the following symbols is not a relational operator in BASIC programming language?

A. <

B. >

C. ^

D. ≤

316. The following are features of web browsers except?

A. address bar

B. formula bar

C. menu bar

D. title bar

317. The act of translating data into a secret code is known as?

A. authentication

B. authorisation

C. encryption

D. piracy

318. The absolute address of cell G5 in a spreadsheet application is represented by?

A. \$G5

B. G\$5

C. \$G\$5

D. \$G5\$

319. Soft boot is initiated by pressing?

A. Ctrl + Alt + Del.

B. function key F10.

C. main switch.

D. bootstrap buttons.

320. Which of the following factors limits access to computerized file system? it

A. occupies less space

B. requires regular supply of power

C. is highly efficient in processing information

D. provides easy and fast access to information

321. Which of the following is not a good ICT security policy?

A. Re-use of old password

B. Frequent change of password

C. Backing up files and documents

D. Scanning e-mail attachment for virus before opening it

322.

INPUT		OUTPUT
P	O	R
0	0	1
0	1	0
1	0	0
1	1	0

The table above represents the Truth Table for?

- A. NOT logic gate
- B. NOR logic gate
- C. AND logic gate
- D. NAND logic gate

323. Use the information below to answer questions 35 and 36

I-Mouse II. -Keyboard III-Scanner IV. -Joystick.

The input devices used to capture date of birth on an Online form are?

- A. I, II and IV only
- B. I, II and III only
- C. I and II only
- D. II and IV only

324. Use the information below to answer this question
I. - Mouse II. - Keyboard III. - Scanner IV. - Joystick.

The input devices used to capture finger print is?

- A. I
- B. II
- C. III
- D. IV

325. To hibernate windows operating system means?

- A. re-start the computer in safe mode
- B. restart the computer in hibernate mode
- C. shut down the computer and terminate all the running applications
- D. shut down the computer without closing all the running applications

326. Which of the following statements can be used for looping in BASIC?

- A. FOR ... NEXT
- B. IF ... THEN
- C. GO TO

D. Go SUB

327. The flowchart ♦ symbol represents?

A. comment

B. connector

C. decision

D. input/output

328. Which of the following tasks is accomplished by using bookmarks? To

A. add anchors in webpage

B. add hyperlinks in webpage

C. quickly jump to specific location in document

D. mark the ending of a paragraph of a document

329. Which of the following function keys can be used to run slide show in a PowerPoint presentation?

A. F2

B. F5

C. F7

D. F12

330. Use the MS Excel table below to answer questions 42 and 43

The formula used to compute the TOTAL VALUE in cell D7 is?

S/NA	A	B	C	D
1	STOCK LIST OF TAYO OKEKE AS AT MAY 2014			
2	QUOTED STOCK	SHARE UNIT IN THOUSAND	CURRENT UNIT(#)	VALUE
3	TANZEL PLC	44	50	2,200.000
4	KAPTOL	125	80	####

5	BANK KLM	75	140	####
6	ARIX OIL	10	250	2,500.00
7		TOTAL VALUE		

A. = sum (D2:D7).

B. = sum (D3:D7).

C. = sum (D2:D6).

D. = sum (D3:D6).

331.

Use the MS Excel table below to answer this question

S/N	A	B	C	D
1	Stock List	of Tayo Okeke	as at	May, 2014
2	Quoted stock	Share Unit	Current Unit Price (₦)	Value
3	Tanzel Plc	44,000	50	2,200,000
4	Kaptol	125,000	80	## ##
5	BANK KLM	75,000	140	####
6	Arix Oil	10,000	250	2,500,000
7			TOTAL VALUE	

Which of the columns needs to be adjusted to accommodate the cells contents?

A. Column A

B. Column B

C. Column C

D. Column D

332. Which of the following statements is true for a circuit Switching communication system?

A. It is not ideal for a real-time communication

B. Messages must be divided into packets before they are sent

C. It does not require any dedicated channel to be established between two parties

D. A dedicated channel must be established between two parties through the period of Communication

333. The first three steps to open an email account include:

I. - Click on create my account; II. - Go to home page; III - Click create new account.

A. I, II and III

B. II, I and II

C. II, III and I

D. I, III and II

334. Converting 4B7_{hexadecimal} to binary is?

A. 010010100111

B. 010010110111

C. 010010000111

D. 010011000111

335. The modifier keys on the computer keyboard comprises of?

A. DEL, ESC and ALT keys.

B. CTRL, CAPS LOCK and DEL keys.

C. SHIFT, CTRL and ALT keys.

D. CTRL, ALT and DEL keys.

336. Arrange in hierarchical order by date the following inventions:

I. - Census machine; II. - Abacus; III. - Slide rule; IV.- Difference engine.

A. I, II, III and IV

B. I, II, III and IV

C. I, II, IV and III

D. II, III, IV, and I

337. A student mistakenly pressed the F5 key on keyboard while browsing on the internet. This will lead to?

- A. opening of a new tab
- B. closing of the active window
- C. Closing of all windows
- D. reloading of the active window

338. Opening an already existing sequential file in output (O) mode will lead to?

- A. buffer overflow
- B. deletion of the current content of the file
- C. duplication of the current content of the file
- D. addition of new data to the content of the file

339. (a) What are input devices?

- (b) list two input devices
- (c) State two uses of logic gates
- (d) Draw and label the logic gate symbol for;
(i) OR gate (ii) AND gate

340. State one difference between star and bus topologies

- (b) List four common network devices.
- (c) Write the acronyms below in full

HTML, HTTP, ISP, SMTP.

341. (a) Match each of the following computing devices.

COMPUTER DEVICES	USES
EDVAC	Electronic general-purpose computer programmed to perform complex sequences of operation.
ENIAC	Electronic digital stored-program computer intended for the bureau of census and later for presidential election.
UNIVAC	Electronic computer, binary in nature with automatic addition, subtraction multiplication and programmed division.

342. (a) In a tabular form, state two differences between random access memory and read only memory

(b) State four characteristics of windows operating system environment.

(c) list two examples of utility programs

343. (a) Convert 10110112 to its hexadecimal equivalent

(b) State one difference a hacker and a scammer

(c) identify the parts labeled A, B, C and D on the keyboard shown below

344. (a) Convert 10110112 to its hexadecimal equivalent

(b) State one difference a hacker and a scammer

(c) identify the parts labeled A, B, C and D on the keyboard shown below

345. Using a word processing package, create a college timetable format titled "COLLEGE TIME TABLE" for 7 subjects (English, Maths, Biology, Chemistry, Physics, Civic Education, and Computer Studies), for 5 days with a minimum of 45 minutes duration. Lunchtime is 40 minutes, and lessons in the college have a minimum of 5 periods/week.

(a) Format the "COLLEGE TIME TABLE" using the following:

(i) The title of the table should be aligned center, bold, and underlined;

(ii) Use table design style of any type

- (iii) Days of the week should be bold
- (b) Save your work with your full name in the folder created.
- (c) print and submit your work

346. As the account clerk of an organisation, you are to prepare the table as shown below using a spreadsheet application:

Worker	Wage/day(#)
Edeh	1500
Usman	1750
Steven	1200
Ololade	650
Comfort	897
Joe	2371

(a) Copy and paste table title "Workers' Wages" on the same sheet. Format this new table as follows:

- (i) Title the new table as SALARIES
- (ii) Sort the table in alphabetical order
- (iii) Calculate average wage of workers per day

(iv) Calculate the max and min wages paid to the workers from the SALARIES

(b) Insert a bar chart for data in 2a

(c) Save workbook with your full name in the folder created

(d) Print and submit

347. using a graphic application software, create a student identity card with the heading as "CITY COMPUTER COLLEGE - NIGERIA"

(a) Size of the card is 3 1/2" x 1 1/2"

(b) Insert "flyer pagoda" or any other graphic from the template as logo beside the heading.

(c) Format the card using the following:

background fill - 20% black; heading font type - Bernard MT Condensed, size 14 (ii) pt, colour white

(iii) write the statement, "this card identities" below the heading using Bookman Old style, 8 pt and in italics;

(iv) write the statements below under name:

Admission Number - Font: Times New Roman

Year of Admission Size: 11 pt

Signature

Line - Hairline

(d) Print and submit. (e) Save file with your full name in the folder created der Name:

348. Data can be defined as?

- A. raw facts
- B. mixed facts
- C. facts on prints
- D. processed facts

349. Which of the following output devices was common among the computing devices of the 19th century?

- A. Monitor
- B. Plotter
- C. Printer

D. Speaker

350. The pre-computing age device which made use of beads and frames is?

A. Abacus

B. Napier's bone

C. Liebnitz multiplier

D. Burrough's counting device

351. The system unit houses the following components except?

A. plotter

B. motherboard

C. floppy disk

D. central processing unit

352. The system unit houses the following components except?

A. plotter

B. motherboard

C. floppy disk

D. central processing unit

353. During program execution in the central processing unit, the instruction is interpreted by the?

A. arithmetic logic

B. control unit

C. memory unit

D. registers unit

354. The most important system software in a computer system is the?

A. control program

B. language translator

C. operating system

D. utility programs

355. QBASIC keywords do not include?

A. FIND B.

B. LET C.

C. REM D.

D. STOP.

356. An icon, a graphic or a text in a document or a webpage that connects to another file or object is called a?

A. hyperlink

B. domain name

C. web browser

D. web server

357. The largest component in a spreadsheet is?

A. cell

B. range

C. workbook

D. worksheet

358. Warm boot in computing is the same as?

A. debugging

B. handshake

C. hard boot

D. soft boot

359. The basic computer operation involves the following except?

A. Access

B. Input

C. Output

D. Process

360. The file that contains historical record is called a?

- A. data file**
- B. master file**
- C. reference file**
- D. transaction file**

361. Random file organisation is also known as?

- A. direct file organisation**
- B. indexed file organisation**
- C. serial file organisation**
- D. sequential file organization**

362. Which of the following options is not a data type?

- A. Alphabetic data**
- B. Alphanumeric data**
- C. Numeric data**
- D. Valid data**

363. The major components of a computer system are?

- A. fimware and humanware**
- B. hardware and firmware**
- C. hardware and software**
- D. software and firmware**

364. The largest computer system in terms of processing power is A?

- A. laptop computer**
- B. mainframe computer**
- C. minicomputer**

D. super computer

365.

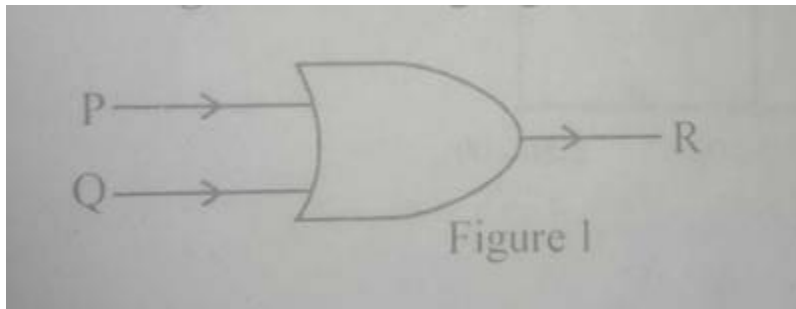


Figure 1 is a logic gate. Use it to answer the question below.

The logic gate represented in Figure 1 is called

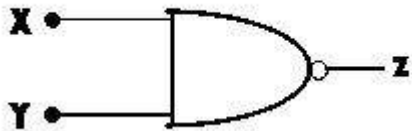
A. AND gate

A. NAND gate

C. NOR gate

D. OR gate

366.



Identify the logic gate in figure 2

A. AND gate

B. NAND gate

C. NOR gate

D. OR gate

367. Which of the following programs is an application specific?

- A. CorelDraw
- B. Microsoft Access .
- C. Word
- D. Payroll system

368. The following programs are general-purpose application software except?

- A. CorelDraw
- B. Editor
- C. Ms Access
- D. MS Word

369. The following are relational operators in QBASIC?

- A. <
- B. >
- C. #
- D. =

370. The three levels of programming language?

- A. assembly language, low level language and high level language,
- B. java, C language and pascal
- C. machine language low level language and high level language
- D. machine language, machine code and assembly language

371. which of the following network cables offers highest data transmission?

- A. Coaxial
- B. Fibre optic
- C. Telephone line
- D. Twisted pair

372. The following components are network interconnecting devices EXCEPT?

- A.** hub
- B.** modem
- C.** router
- D.** webcam

373. Which of the following options is not an advantage of linear bus topology?

- A.** It requires less cable length
- B.** It ensures easy casting
- C.** Additional nodes can be connected easily
- D.** Terminators are required at both ends of the

374. Which of the following components are data communication equipment?

- I. Scanner II. Hub III. Modem

- A.** I and II only
- B.** I and III only
- C.** II and III only
- D.** I, II and III

375. The speed of data transfer in the computer can be determined in terms of?

- A.** protocols and bus speed
B. bus speed and bus width
C. bus width and storage media
D. bus speed and storage media

376. The process of restarting the computer system is known as?

- A. cold booting**
- B. hard booting**

- C. hot bathing
- D. warm booting

377. The ASCII chart control characters using numeric codes ranging from?

- A. 0 to 124
- B. 0 to 125
- C. 0 to 127
- D. 0 to 128

378. A row in a database table is referred to as?

- A. attribute
- B. data item
- C. field
- D. record

379. The conversion of readable data to unreadable codes in order to prevent unauthorised access is known as?

- A. authentication
- B. encryption
- C. encoding
- D. decryption

380. The algebraic equation for the AND gate with input variables A and B is?

- A. $X = A.B$
- B. $X = A/B$
- C. $X = A - B$
- D. $X = A + B$

381. The command line prompt of MS-DOS operating system is represented as?

- A. C:>
- B. C:\

C. C:\>

D. C\:>

382. The process of testing the logic of programs to ensure they give correct result is known as?

A. algorithm

B. desk checking

C. flowcharting

D. table checking

383. The MS-Windows shortcut keys to initiate warm booting is?

A. Alt+ f4

B. Ctrl+ Alt + Del

C. Ctrl+Esc

D. Ctn +Shift + Del

384. The number 28 in binary is?

A. 1001

B. 11001

C. 110011

D. 11100

385. Which of the following options is a biometric data?

A. Gender

B. Password

C. Date of birth

D. Pattern of eye iris

386. A site engineer intends to acquire a computer system. What factors Will he consider if he must choose a notebook computer over a desktop computer?

- A. Size, cost and battery life
- B. Cost, size and convenience
- C. Size, convenience and battery life
- D. Cost, convenience and battery life

387. Use the logic truth table in figure 3 to answer question

X	Y	Z
0	0	1
0	1	1
1	0	1
1	1	0

Given that X and Y are input variables while Z is the output. The truth table in figure 3 represents?

- A. XOR gate
- B. EX OR gate
- C. NOR gate
- D. NAND gate

388. A logic gate contains three input variables. The total possible combination of the input variables is?

- A. 3
- B. 4
- C. 8
- D. 12

389. The following are the guidelines for drawing flowcharts except that it?

- A. must have a logical start and finish

- B.** should be clear, neat and easy to follow
- C.** should follow a direction of right to left or bottom to top
- D.** should follow a direction of left to right or top to bottom

390. Use the information below to answer questions 42 and 43.

As a computer professional, you have just been contracted by a school to help them solve the problem they are facing in computing students' results.

The school currently runs a manual system. Time and accuracy of the result are the major concerns.

What would you advise the school to do?

- A.** Automate the system
- B.** Close down the school
- C.** Increase the number of staff
- D.** Buy more calculators for the staff

391. If you are given the contract, what would be your first step of action?

- A.** Analyse the result
- B.** Design a software
- C.** Investigate the problem
- D.** Maintain the staff

392. Which of the following charts does not display the X and Y axes?

- A.** Bar chart
- B.** Bubble chart
- C.** Doughnut chart
- D.** X, Y graph

393. The uses of spreadsheet packages include:

1. -Preparing organisation's logo; II. - Performing sensitivity analysis; III, - Preparing reports for senior management; IV. - Preparation of profit forecasts.

Which of the following options is true?

- A. II and IV only
- B. III and IV only
- C. I, II and III only
- D. II, III and IV only

394. The common features of formula and function in spread- sheet are:

- Entry is preceded by = or + symbol I.
- They have fixed formats
- They operate with cell addresses
- Their results are displayed.

Which of the following options is/are true?

- A. I, II, III
- B. I, III, IV
- C. II, III, IV
- D. I, II, III, IV

395. One megabyte is equivalent to?

- A. 1000 X 1024 bytes
- B. 1024 X 1024 bytes
- C. 1024 X 1048 bytes
- D. 1000 X 1000 bytes

396. Arrange the following spreadsheet window parts in a hierarchical order by size:

- I. worksheet
- II. cell
- III. workbook
- IV. Range

- A. III, I, IV, II

- B. III, IV, II, I**
- C. II, III, IV, I**
- D. II, IV, I and II**

397. The statement in QBASIC that is used to add data at the end of existing sequential file is?

- A. APPEND**
- B. CLOSE**
- C. INPUT**
- D. OUTPUT**

398. Which of the following computer files can be used for updating the master file?

- A. date**
- B. program**
- C. reference**
- D. transaction**

399. (a)i) Define the term computer system.

(i) List the major components of the computer system and give one example of each.

(b)(i) List two activities involved in transferring data into information. (i) Write the following acronyms in full:

(1) EDSAC (11) EDVAC

400. (a) What is a register?

(b) List two types of register.

(c) State three functions of registers.

(d) Outline three differences between a register and main memory

401. (a) What is: (i) an array; (ii) a syntax error?

(b) Write QBASIC program that will input multiples of Three between 1 and 20 into a one-dimensional array and display the output on the screen.

(c) Convert D5FA,, to binary.

402. (a) Define logic gate.

(b) Give one example each of: (i) standard logic gate; (ii) alternative logic gate.

(c) Using P and Q as inputs and R as output:

(i) draw the logic symbol for an XOR logic gate: (ii) construct the truth table for XOR logic gate.

(d) List two uses of a logic gate.

403. (a)i) What is booting?

(i) State two differences between the types of booting.

(b) What is peripheral?

(c) Give one example each of (i) input device; (ii) output device; (iii) storage devices (iv) a component found inside the system unit.

404. 1(a) The table below shows the scores of six students in computer studies at Top Hill High School. Use the font Times New Roman with size 12 pt in spreadsheet application to prepare the information given in the table.

Student I. D	1st Term	2nd Term	3rd Term	1st term W/score	2nd term W/score	3rd term W/score	Total W/score
THHS2015040	69	56	74				
THHS2015032	77	82	90				
THHS2015025	67	55	48				
THHS2015067	56	87	68				
THHS2015055	54	59	70				

THHS2015043	63	48	64				
-------------	----	----	----	--	--	--	--

Insert b:

(i) new column with the heading "Name" between the first and second columns;

(ii) title "Students' Scores in Computer Studies" above the table.

(c) Beginning from the first cell under column heading "Name" to the sixth cell, type the following: Adedigba Eze, Balango Ngozi, Agbelero Cynthia, Okeowo Sulkite, Okonia Ifedola, and Umaru Edonk.

(d) If "W/score" stands for weighted score, calculate:

(i) weighted score for each term given that weighted score comprises 20%, 30%, and 50% of raw scores for first, second, and third terms respectively;

(ii) total weighted score for the three terms.

(e) Insert your full name and index number as a footer.

(f) Save with your index number in the folder created.

(g) Print and submit to the supervisor

405. You have been tasked to give a presentation to an audience on the topic "Computer Networks".

Use the 2 layout below to create slides using Microsoft PowerPoint.

(a) SLIDE 1

LOCAL AREA NETWORK

A computer network located on user's premises

A network in which a set of devices are connected together for communication

SLIDE 2

WIDE AREA NETWORK

A network of geographically dispersed telecommunication devices

The network may be private or public-shared.

SLIDE 3

ADVANTAGES OF NETWORKS

- (i) Resource sharing (ii) Enhanced connectivity (ii) Enhanced communication

SLIDE 4

DISADVANTAGES OF NETWORKS

- (i) Security concerns (ii) Virus attacks (iii) Network failure

(b)

INSTRUCTIONS:

- (i) The font size of the heading should be 36pt and bold, font style Calibri.
- (ii) The font size of the text in the body should be 32pt, font style Calibri.
- (iii) Apply bullet numbering where necessary.
- (iv) Format the slides using any background of your choice
- (v) Insert your full name and index number as footer.
- (vi) Save your work as Networks and print all the sides on a single sheet.
- (vii) Submit the printout to the supervisor.

406. INSTRUCTIONS: (a) Sort the table on SURNAME and FIRST NAME in ascending order.

(b) Delete the record for employee 279.

(c) Create a report from the table and name it SALARY. The header of the report should read "EMPLOYEE SALARY".

(d) Format:

(i) the column headings of the report with font size 14pt and bold;

(ii) the other inputs with, font size 12pt.

(e) Apply border line.

(f) Insert your full name and index number.

(g) Print and submit to the supervisor

407. The personnel who deals with the computer and its management is called?

- A. software
- B. liveware
- C. hardware
- D. firmware

408. The map of Nigeria is an example of ?

- A. alphabetic
- B. audio data
- C. biometric data
- D. graphic data

409. The hexadecimal number 13, expressed as a binary here is?

- A. 00010011.
- B. 00101100.
- C. 00101110.
- D. 00100100.

410. Which of the following statements are true about computer?

I. Constructed from electronic components. II. It has self regeneration capability.

III. It has facility for storage of data and programs. IV. It has provision for input and output of data.

- A. I, II and III only
- B. I, II and IV only
- C. I, III and IV
- D. II, III and IV only

411. Computers are classified using the following criteria except?

- A. cost and portability.
- B. data representation and purpose.
- C. size and speed.
- D. speed and storage.

412. The Slide Rule is accurate to?

- A. 1-2 decimal places.
- B. 3-4 decimal places.
- C. 5 decimal places.
- D. 6 decimal places.

413. Modern computers compared to earlier computers are?

- A. faster and larger.
- B. faster and smaller.
- C. larger and stronger.
- D. less reliable

414. An input device that converts an image into text is known as?

- A. Optical Character Reader.
- B. Optical Code Reader.
- C. Optical Display Reader.
- D. Optical Mark Reader.

415. The type of printer which works on the same principle as a photocopier is?

- A. Dot Matrix Printer.
- B. Ink. Jet Printer.
- C. Laser jet Printer.
- D. Thermal Printer.

416. The output of a NAND gate is 1 when?

- A. all inputs are 0.
- B. all inputs are 1.
- C. any of the input is 0.
- D. any of the input is 1.

417. A company known as CIBITO has the following memory modules in four of its computers as shown in Table 1 Use the information in Table 1 to answer questions 11 to 13.

MEMORY MODULE	MEMORY TYPE	NUMBER OF PINS
P	SIMM	30
Q	SIMM	72
R	SO DIMM	72
S	DIMM	168

Table 1

Which of the memory modules is appropriate for a notebook computer?

- A. P
- B. Q
- C. R
- D. S

418.

Table 1

<i>MEMORY MODULE</i>	<i>MEMORY TYPE</i>	<i>NUMBER OF PINS</i>
P	SIMM	30
Q	SIMM	72
R	SODIMM	72
S	DIMM	168

use the table above to answer this question

The memory module with the smallest physical size is?

- A. P
- B. Q
- C. R
- D. S

419. A company known as CIBITO has the following modules in four of its computers as shown in Table 1. Use the information in Table 1 to answer this question.

Memory module	memory type	No of pins
P	SIMM	30
Q	SIMM	72
R	SODIMM	72
S	DIMM	168

identify the memory module with the largest physical Size?

- A. P
- B. Q
- C. R

D. S

420. The scanner and the floppy disk are?

- A.** both input devices.
- B.** both output devices.
- C.** input and output devices respectively.
- D.** input and storage devices respectively

421. The set of instructions written by computer experts to solve specific task of the user is called?

- A.** operating system.
- B.** application software.
- C.** system software.
- D.** utility software

422. A Collection of software that allows the computer to operate is called?

- A.** general-purpose software.
- B.** utility software.
- C.** operating system.
- D.** specific software

423. A suite of software that controls and manages the basic operation of a computer is?

- A.** application Software.
- B.** management system.
- C.** software package.
- D.** system software.

424. The Windows PC and the Apple Macintosh are examples of two different?

- A.** input devices.
- B.** platforms.
- C.** programs.

D. storage devices.

425. Machine Language instructions are expressed in?

- A. binary.**
- B. decimal.**
- C. hexadecimal.**
- D. octal.**

426. The following symbols are used in flowcharting except the?

- A. terminal symbol.**
- B. process symbol.**
- C. input/output symbol.**
- D. close symbol.**

427. Three major types of language translators are?

- A. assembler, compiler and editor.**
- B. assembler, Compiler and interpreter.**
- C. compiler, debugger and editor.**
- D. debugger, assembler and interpreter**

428. Translate $2m^2 + 3n - 9$ as a BASIC arithmetic expression.

- A. $2 * m * 2 + 3 * n - 9$**
- B. $2 * m ^2 + 3 * n - 9$**
- C. $2 * 2 * m + 3 * n - 9$**
- D. $2 * m * m * n + 3 - 9$**

429. The term compiler in computer programming refers to a?

- A. key punch operator of the computer.**
- B. person who compiles source programs.**

- C.** person who writes the computer programming codes.
- D.** program which translates source program into object program.

430. The IF...THEN statement in BASIC programming is?

- A.** a transfer of control.
- B.** used to redirect a statement.
- C.** used to eliminate the need for prompting each INPUT statement.
- D.** a conditional branch statement.

431. Flexibility of a good program means?

- A.** handling of any change(s) without having to rewrite the entire program.
- B.** the length of processing time and memory to process the instruction.
- C.** the program has to be broken down into a number of sub-tasks.
- D.** the program should work for two similar tasks in the same domain.

432. Fibre Optic cable transmits signal in the form of?

- A.** sound.
- B.** electricity.
- C.** Light.
- D.** microwave

433. Data transfer can be initiated through the following media except?

- A.** coaxial cable.
- B.** fibre cable.
- C.** trunking pipe.
- D.** twisted pair cable.

434.

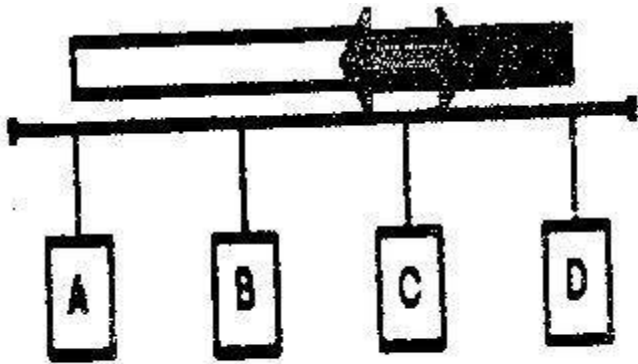


Figure 1

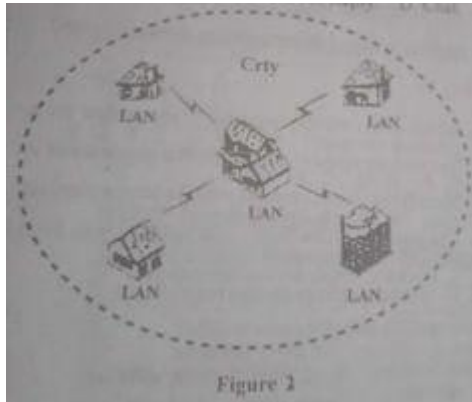
The topology represented in figure 1 is?

- A. bus topology.
- B. mesh topology.
- C. ring topology.
- D. star topology.

435. To send a created MS PowerPoint document using email to a user, the document can be added as?

- A. Attachment.
- B. Draft.
- C. Reply.
- D. Chat.

436.



What type of network is represented in Figure 2?

- A. Local Area Network
- B. Metropolitan Area Network
- C. Personal Area Network
- D. Wide Area Network

437. The major advantage of free software is that it is?

- A. free and contains unlimited components.
- B. licensed and available always.
- C. licensed and can be copied by anyone.
- D. superior in quality but not robust.

438. In MS Excel, the cell that contains the pointer or cursor is called?

- A. active cell.
- B. current cell.
- C. default cell.
- D. passive cell.

439. One major difference between paper spreadsheet and electronic spreadsheet is?

- A. a management of columns.
- B. headings from formatting.
- C. arrangement of rows. .
- D. speed of processing

440. To hold row and column titles in places so that they do not scroll when the user scrolls a worksheet, click the?

- A. freeze panes command on the windows menu.
- B. hold titles command on the edit menu.
- C. split command on the windows menu.
- D. show grid command on the windows menu.

441. In Microsoft PowerPoint, two kinds of sound effect files that can be added to a presentation are?

- A. .wav files and .mid files.
- B. .wav files and .gif files.
- C. .wav files and jpg files.
- D. jpg files and.gif files.

442. A cell with a red triangle in the top-right corner in a spreadsheet application signifies?

- A. an error in the cell.
- B. a comment associated with the cell.
- C. that the font colour for the text in the cell is red.
- D. that a formula cannot be entered into the cell.

443. Spreadsheet packages can be used for?

- A. database and painting.
- B. drawing and painting.
- C. budgeting and inventory.
- D. word processing and drawing

444. Which of the following is true when data maintained in MS Excel workbook is linked to a word document? The word document

- A. cannot be edited.
- B. must contain a hyperlink.
- C. contains a copy of the actual data.
- D. contains a reference to the original source application

445. Data that is copied from an application is stored in the?

- A. clipboard.
- B. driver.
- C. prompt.
- D. terminal.

446. After several 'save' and 'delete' operations, there remain many scattered areas of data too small to be used productively. This describes?

- A. utilization.
- B. protection.
- C. fragmentation.
- D. backing up.

447. The disk operating system will label three hard drives as?

- A. A, B and C.
- B. C, D and E.
- C. B, C and D
- D. F, G and H.

448. Which of the options labeled I to IV give two stages involved in booting?

I. Power On self test II. Loading of Operating System III. Loading of email IV. Power On Safe Mode

- A. I and II only
- B. I and III only
- C. II and IV only
- D. III and IV

449. A bit as used in computing in digital communication is?

- A. a decimal digit.
- B. an octal digit.
- C. a bin digit.
- D. a hexadecimal digit.

450. Multiply 101_2 by 11_2

- A. 1001_2
- B. 1011_2
- C. 1110_2
- D. 1111_2

451. In BCD encoding system, 25, will be represented as?

- A. 01100101
- B. 01010110.
- C. 00100101.
- D. 0101001.

452. The following actions are sources of breaches in computing except?

- A. carelessness
- B. hackers' threat.
- C. piracy.
- D. viruses.

453. Effects of file insecurity include the following except?

- A. virus infection.
- B. file corruption.
- C. encrypted data
- D. data loss.

454. Which of the file organization methods can be accessed both randomly and sequentially?

- A. Direct files
- B. Indexed sequential files
- C. Random files
- D. Sequential files

455. A computer program that gathers information about a person or organization without their knowledge or consent is known as?

- A. Adware.
- B. Time Bomb.
- C. Malware.
- D. Spyware.

456. Password reset disk should be created?

- A. every time the user changes password.
- B. once only.
- C. only when the user forgets the password.
- D. twice only

457. (a) i() What is firewall? (ii) List two methods used in protecting the computer system.

(b) Explain the following stages of the System Development Life Cycle: (i) feasibility study; (ii) design; (iii) maintenance.

458. (a) A musician intends to record music on a storage medium. List four ways that the music file can organized in the storage medium.

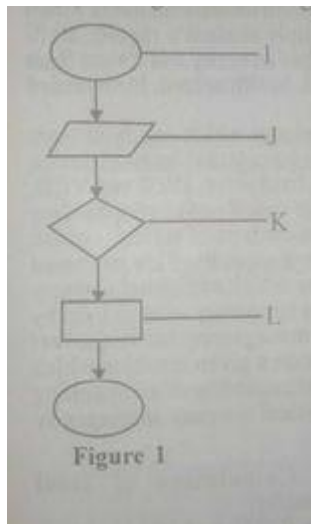
(b) State two basic operations on computer file. (c) Explain the following computer terms: (i) file
(ii) record

459. (a) Explain the following terms: (i) storage device; (ii) virtual memory.

(b) Two storage devices have capacities 2KB and 2MB respectively. (i) Calculate the number of bits that each of 2KB and 2MB can hold. 2 KB: 2 MB

(i) Putting the two storage together, calculate the total capacity in bytes.

460.



(a) (i) Identify Figure 1 above. (ii) Name the parts labeled I, J, K, and L in Figure 1

(b)(i) Define the documentation stage in the Program Development Life Cycle. (ii) List three characteristics of a good computer program.

461. (a)(i) Define the term encryption. (ii) Tick two authentication techniques involved in security measure from Table 1.

Table 1

(ii) Outline two features of data encryption. (b) While exchanging data with a friend through your mobile phone, you observed that it took a longer time than usual. Outline four factors that may be responsible for the delay in the data transfer.

TECHNIQUE	TICK()
Firewall	
Biometric	
Password	
Intranet	

462. Using a word Processing application package, create a visiting card for a system administrator of a software company using the following specifications:

(a) Size of the card is 3.5" x 2", (b) Office and Residential Address separated by a line; (c) the card should be copied in three places on the same page; (d) note that.

(i) the background colour must be grey scale; (ii) the card should be in shadow style; (iii) title "Visitor"

Uppercase

Highlight-gray-25%

Font size - 10 pt.

Font type - Georgia:

(iv) Office Address and Residential Address - 1.15 spacing

Font Type-Cambria

Font Size - 7 pt.

(e) Insert a footer and type in your full name and index number.

(f) Save your work with your full name in the folder created on the desktop.

(g) Print your work and submit to the Supervisor.

463. Use a spreadsheet application to do the following. (a) In cell A1, type "My One Week Expenses On Five items".

(b) In row 2, type column-by-column the following: "ITEM", 1ST DAY, "2ND DAY", "3RD DAY", *4TH DAY, "5THDAY", "6TH DAY" and "7TH DAY".

(c) In column A, starting from A3 to A7, List the items you spent money on.

(d) Enter the amount spent on each item for each day in their respective columns.

Note: select your own items and the amount spent.

(e) In cells 12 and A8. type "TOTAL N".

(f) Using formula/function compute the total expenses for each day and for each item.

(g) Create borders around the table.

(h) Insert a footer and type in your full name and index number. (i) Below the table, type in the formula that was used:

(i) in cell 18: (ii) for summing from B3 to H3.

Note: Enclose your formula in quotes, save your work with your full name in the folder created on the desktop.

(k) Print your work and submit to the supervisor.

464. As a database administrator for a company, create a table named tbl-Employee in a database application package containing the fields:

"Employee Name", "Department", "Assumption Date", Address and "Designation".

(a) Enter the data as shown in the table tbl-Employee

tbl-Employee

Employee Name	Department	Assumption Date	Address	Designation
Kate Willikie	General Office	03/08/18	3 Lagos Crescent	Secretary
James Elliot	Security	27/11/10	2 Cocoa House Villa.	CSO

Paul Akinson	Admin	03/11/12	12 Millo Avenue	HRM
Abdul Kaduna	Registry	05/06/16	2 Park Lane Rd	Clerk
David Madu	Management	22/03/94	34 Lakeside	MD

(b) Sort the data using the Assumption date from oldest to newest.

(c) Create a report in tabular, landscape using the tbl-Employee table.

(d) Insert your full name and index number as a label on the report.

(e) Save the report as rpt-Employee.

(f) Print your work and submit to the supervisor.

465. Which of the following is not a step involved in data conversion?

- A. Input
- B. Output
- C. Process
- D. Transfer

466. The communication of knowledge, concepts and ideas is referred to as?

- A. information processing.
- B. information transmission.
- C. telecasting.
- D. webcasting.

467. The equivalent of the decimal number 89 in base 4 is?

- A. 1021.
- B. 1201.
- C. 1211.
- D. 1121.

468. Choose the incorrect statement about microcomputers?

- A. A microcomputer can be placed on a single silicon chip.
- B. A microcomputer can have more processing capability than a mainframe model.
- C. ROM chips may be used in micros to permanently store program instruction.
- D. Most micros use rigid disk storage devices rather than floppy disk drives.

469. Under classification by data representation. computers can be?

- A. analogue, digital and hybrid.
- B. hybrid, mainframes and analogue.
- C. mini- computers, digital and supercomputers.
- D. supercomputers and mini-computers

470. Pascal's calculating machine was useful in?

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

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