

322.

The following arithmetic operators are available in VB except:

- a) +
- b) \*
- c)  $\bar{+}$
- d) ++

323.

Which of the following keywords is used to declare variables?

- a) Declare
- b) Define
- c) Dim
- d) Define

324.

The following are logical operators except:

- a) But
- b) Not
- c) Imp
- d) Eqv

325.

The following are valid relational operators in VB except:

- a) <
- b) >
- c)  $\leftrightarrow$
- d) =

326.

Which of the following is not a valid looping statement in VB?

- a) For-Next
- b) Do-Loop
- c) While-Wend
- d) While-With

327.

Looping in VB is divided into 2 categories. They are:

- a) Conditional and Conditioned
- b) Conditional and Dependent
- c) Conditional and Unconditional
- d) Independent and Unconditional
- e) Unconditioned and Conditional

328.

For what type of application is the Select Case structure well-suited?

- a) File-based
- b) GUI-based
- c) Event-driven
- d) Menu-driven

329.

Which of the following is the correct format for If-Then statements?

- a) If executable expression Then logical statement
- b) If logical statement Then executable expression
- c) If logical expression Then executable statement
- d) If conditional statement Then logical expression
- e) If logical expression Then valid statement

330.

Select-Case structure offers a simple solution to several

- a) Then-Else or If-Then-Else blocks
- b) Completing
- c) Conjunction
- d) Competing

331.

The following For-Next loop makes ..... passes

Sum = 0  
For I = 1 to 10  
Sum = Sum + I  
Next I

a) 20 b) 12  
c) 10 d) 9  
e) 11

332.

Select-Case structure ends with:

- a) Case If
- b) Case Or
- c) Or Case
- d) Case Else
- e) Case

333.

How many different ways can a Do-Loop structure be written?

- a) 5
- b) 3
- c) 4
- d) 1
- e) 2

334.

A While... Wend loop is similar to a:

- a) For...Next
- b) Do... Until
- c) Do... While
- d) If... Then
- e) none of the above

335.

To execute a statement or a group of statements for a False expression, the

- ..... Operator is used
- a) But
- b) No
- c) Nor
- d) And
- e) Not

336.

To handle both True and False conditions a ..... statement is used in

- a) Next
- b) Else
- c) Or
- d) Nor
- e) none of the above

337.

The key feature of a conditional loop is the.....

- a) Statement
- b) Condition
- c) Expression
- d) Relational Statement
- e) none of the above

338.

The three most frequently used logical operators in VB are:

- a) And, Imp, Not
- b) Not, Imp, Eqv,
- c) And, Not, Or
- d) Imp, Not, If
- e) none of the above

285.

The shape of the mouse cursor is determined by

- a. mouse arrow
- b. mouse shower
- c. mouse wrap
- d. mouse pointer
- e. shapes

286.

----- specifies the order of the text book in focus order

- a. Tab stop
- b. TabIndex
- c. Text
- d. Password Char
- e. BorderStyle

287.

F1 on the key board is used for

- a. Request for help
- b. Terminate program
- c. run the program
- d. move to the next menu
- e. Highlight

288.

In visual basic data falls into three broad categories

- a. alphanumeric, numeric and string
- b. numeric, string and special
- c. numeral, alphabet and shapes
- d. special, numeric and alphanumeric
- e. none of the above

289.

When visual basic converts one data type to another it is called

- a. conversion
- b. changing
- c. implicit typing
- d. all of the above
- e. none of the above

290.

----- is a series of zero or more characters that you treat as a single entity.

- a. numeric
- b. string
- c. special
- d. none of the above
- e. all of the above

291.

----- returns a string data value that holds the data typed by the user.

- a. MsgBox
- b. DialogBox
- c. InputBox
- d. all of the above
- e. none of the above

292.

Which of the following tells the user what to use

- a. inputBox
- b. MsgBox
- c. a only
- d. Visual Basic
- e. all of the above

293.

Which of the following gets user information?

- a. inputBox
- b. MsgBox
- c. Visual Basic
- d. b and c
- e. all of the above

294.

Visual Basic translates source program into

- a. codes
- b. Text
- c. Executable programs
- d. pictures
- e. shapes

295.

----- supplies controls

- a. DialogBox
- b. ToolBox
- c. DataBase
- d. a,b and c
- e. all of the above

296.

----- works better than titles

- a. labels
- b. text
- c. textbox
- d. commandbutton
- e. checkbox

297.

What property disables a textbox from triggering events when the user types or clicks the textbox

- a. TabIndex
- b. Enable
- c. Tabstop
- d. Alignment
- e. all of the above

298.

What are two controls that behave as if they conform to Boolean datatype

- a. checkbox and commandbutton
- b. optionbutton and checkbox
- c. textbox and datatype
- d. all of the above
- e. none of the above

299.

Which of the following are invalid variable names

- a. 12Months
- b. a
- c. "CursalesForecast"
- d. Acctg93
- e. Dogchain

300.

Which operator performs two operations

- a. +
- b. -
- c. \*
- d. /
- e. &

301.

What value would be stored in  $25 \cdot 8 / 2 + 2$

- a. 25
- b. 21
- c. 23
- d. 20
- e. none of the above

302.

Which of the following variable names is written incorrectly?

- a) root1
- b) xmax
- c) X.7
- d) C3
- e) CustomerName

255.

The types of scrollbars in V.B are

- (a) horizontal & vertical
- (b) horizontal & diagonal
- (c) no scrollbars in V.B
- (d) horizontal/diagonal/vertical
- (e) all of the above

256. Which of these select a single choice from a group

- (a) option button
- (b) Combo box
- (c) List box
- (d) Check box
- (e) Command button

257. Which of these display a list of user defined items

- (a) option button
- (b) Combo Box
- (c) List box
- (d) Check box
- (e) Label

258. The two major components within the visual basic program are;

- (a) tables and files
- (b) control and set of commands
- (c) icons and tables
- (d) buttons and labels
- (e) screen and mouse

259. What is an event?

- (a) an activity has just occurred
- (b) a milestone in an individuals life
- (c) actions executed by a computer
- (d) Programs response to an action taken by a user
- (e) An inventory process in a computerized system

260.

- (a) A form is.....
- (b) A Title bar
- (c) A control
- (d) A window
- (e) None of the above

261.

- (a) command buttons
- (b) menus
- (c) icons
- (d) text boxes
- (e) labels

262.

which of these is not a process when writing a visual basic program

- (a) calculate the speed of the system
- (b) Ignore the steps if the results are incorrect
- (c) Decide what the program is supposed to do
- (d) All of the above
- (e) None of the above

263.

which one of these is not a skill required in visual basic

- (a) familiarity with windows operating system
- (b) managing files within windows
- (c) booting the system
- (d) installing new applications
- (e) none of the above

264.

which of the following is the save icon

- (a) Scissors icon
- (b) Folder icon
- (c) Briefcase icon
- (d) Diskette icon
- (e) Any of the above

265.

which of the following is not an array declaration in Visual Basic

- (a) Dim Customers (200)
- (b) Net (100) as Single
- (c) Sales (50,100) as single
- (d) Rate=[1...20];
- (e) K(10) AS Integer

266.

which of the following is not an example of a loop statement in V.B

- (a) if...else
- (b) ForEach-Next
- (c) All of the above
- (d) While-until

267.

What are dynamic arrays?

- (a) They are mobile arrays
- (b) They are arrays that are portable
- (c) They are self generating arrays
- (d) Arrays whose size can be changed at various places within a program
- (e) They are stored variables

268.

which is not a declarative statement in dynamic arrays

- (a) Dim
- (b) Public
- (c) Private
- (d) X
- (e) All of the above

269.

Subscripted variables are....

- (i) Arrays with known subscripts
- (ii) Individual elements within an array
- (iii) Variables with subscripts

- (C) Known variables  
 (D) None of the above
270. Which of the following is an integer data type  
 (A) 6.5  
 (B) 30  
 (C) 24.22  
 (D) X-1
271. What are Control Arrays?  
 (A) Arrays that are in a particular order  
 (B) Multiple controls of the same type that can be grouped into arrays  
 (C) A set of control statements  
 (D) Explicit arrays  
 (E) These are arrays controlled by their data types
272. A window and assigning a value 0 to its index property is created by placing a control within the form design  
 (A) Dynamic Array  
 (B) Control Array  
 (C) Static array  
 (D) Visible array  
 (E) Declared array
273. How are the upper and lower bounds of a subscript specified in a Dim statement  
 (A) i=LBound(x) and i2=UBound(x)  
 (B) i1=LBound(x) and i2=UBound(y)  
 (C) L1=f[] and U2=f[]  
 (D) Dimx=[ ] and Dimy=[ ]  
 (E) None of the above
274. Which of the following can not be found in a tool box  
 (A) command button  
 (B) picture box  
 (C) frame  
 (D) option button  
 (E) property box
275. What are the three basic controls in visual basic?  
 a. Textbox, checkbox, label  
 b. Label, combobox, command button  
 c. Textbox, command button, label  
 d. Command button, picture box, label  
 e. All of the above
276. Visual basic toolbox include the following except?  
 a. Textbox  
 b. Label  
 c. Command button  
 d. Print  
 e. Frame
277. The most straightforward way to display output data is with?  
 a. Option or command button  
 b. Label or textbox  
 c. Label or picture box

- d. Textbox or picture box  
 e. Pointer or check box
278. The method of adding control to the form design windows are  
 a. Drag and right stick  
 b. Double click and click drag  
 c. Right click and double click  
 d. Left click and right  
 e. Left click and drag
279. Message box function include  
 a. Display information box  
 b. Display command button  
 c. Display picture  
 d. Display combo box  
 e. Display label
280. The dim key word is for:  
 a. Declaration of variable  
 b. Display information  
 c. Output message  
 d. Input message  
 e. Defining data type
281. Which of the following holds text that appear on the command button  
 a. Front  
 b. Style  
 c. Caption  
 d. Table index  
 e. Tool Tip Text
282. Tab index specifies  
 a. The order of the command button in the focus order  
 b. Determines of command button is active  
 c. Specifies command button color  
 d. Holds text  
 e. Holds number of tips from the command
283. Which of the following properties determines whether command button is active  
 a. Style  
 b. Visible  
 c. Enable  
 d. Default
284. Which of the following properties enlarges the labels size properties  
 a. Alignment  
 b. Auto size  
 c. Front  
 d. Top

correctly?

312. The arithmetic expression  $x' \cdot n$  is equivalent to:

- a)  $-1 \cdot (x' \cdot n)$
- b)  $x' \cdot -n$
- c)  $(x' \cdot n)$
- d)  $(x' \cdot -n)$
- e) none of the above

313. Which of the following assignment statements is wrong?

- a)  $x = y^4$
- b)  $Cmax = X$
- c)  $y = a+b$
- d)  $Label2.Caption = "NATIVE"$
- e)  $Str = FirstStr + LastStr$

314. What is the result of the following operation  $\text{Int}(-2.3)$ ?

- a) -3
- b) -2.3
- c) 2.3
- d) 3
- e) none of the above

315. What is the result of the following operation  $\text{Int}(-3.7)$ ?

- a) -3.7
- b) 4
- c) 3.7
- d) -4
- e) -3.7

316. The following operations can be carried out on strings except:

- a) Lcase
- b) Left
- c) Len
- d) Abs
- e) Mid

317. The maximum permissible length of a variable name is:

- a) 355
- b) 365
- c) 256
- d) 255
- e) 265

318. The maximum permissible length of a string constant is:

- a) 265
- b) 355
- c) 255
- d) Infinite
- e) 365

319. Which of the following is not a data type in VB?

- a) Integer
- b) Double
- c) Currency
- d) Triple
- e) Date

320. The following are reserved words in VB except:

- a) Dim
- b) If
- c) When
- d) Else
- e) Case

321. The following operations can be performed on numeric variables except:

- a) Abs
- b) Log
- c) Ucase
- d) Cos
- e) Exp

238. This existing database provides a means of displaying information from an  
 (a) Database file  
 (b) Data  
 (c) Combo box  
 (d) File list box  
 (e) Test box
239. Which of these is not a prefix in the tool box  
 (a) cbo  
 (b) chk  
 (c) ole  
 (d) txt  
 (e) none of the above
240. The Frame is not used for displaying graphics  
 (a) Picture box  
 (b) Image box  
 (c) List box  
 (d) All of the above
241. The OLE is used to link with other objects  
 (a) Text box  
 (b) Date  
 (c) Label  
 (d) Control
242. In which of the following tool menu can the menu editor button be found  
 (a) task bar  
 (b) menu bar  
 (c) project form  
 (d) property form  
 (e) none of the above
243. The shortcut key for property window is  
 (a) F4  
 (b) Ctrl P  
 (c) F5  
 (d) F1
244. Which of these is a part of a form  
 (a) caption/title  
 (b) design grid  
 (c) project form  
 (d) control box  
 (e) all of the above
245. The control for making a choice is  
 (a) Combo box  
 (b) List box  
 (c) Option button  
 (d) Check box  
 (e) All of the above
246. Which of these is not a variable type in visual basic  
 (a) String  
 (b) Dollar sign  
 (c) Currency  
 (d) Variant  
 (e) Boolean
247. declare is used to declare a variable in visual basic  
 (a) declare  
 (b) show  
 (c) Dim  
 (d) Assume
248. exchange is used to exchange information between the program and the user  
 (a) dialog box  
 (b) exchange bar  
 (c) exchange dialog box  
 (d) all of the above
249. can two items within the same menu have the same keyboard access character?  
 (a) Yes  
 (b) No  
 (c) Maybe  
 (d) \*
250. The key part of a list box are  
 (a) the selected item  
 (b) the scroll bar  
 (c) item list  
 (d) all of the above  
 (e) none of the above
251. Which of these keys is used to add access in V.B  
 (a) @  
 (b) \$  
 (c) Ctrl A  
 (d) \*  
 (e) \*
252. Which of these is used to get a yes or no answer  
 (a) check box  
 (b) option box  
 (c) list box  
 (d) label box  
 (e) none of the above
253. Database Applications can also be combined with visual basic  
 (a) True  
 (b) False  
 (c) Once in a while  
 (d) all of the above  
 (e) none of the above
254. The record source property let you specify the table you want to open in a database  
 (a) Table source  
 (b) Database source  
 (c) Tool source  
 (d) Data source

204. In a program flowchart, two operations that share the same symbol are  
A. decision and stop  
B. stop and start  
C. decision and action  
D. input and output  
E. B & D
205. Errors that prevent a program from execution are called  
A. bugs  
B. bugs  
C. bugs  
D. semantics  
E. syntax
206. Most accounting software packages will run on  
A. hybrid computers  
B. digital computers  
C. analog computers  
D. Data general computer only  
E. mainframe only.
207. When executing instructions, the computer normally slices a second into small bits. Which of the following is the ascending order of time slices?  
A. millisecond, nanosecond, picosecond, microsecond  
B. microsecond, millisecond, nanosecond, nanosecond, picosecond.  
C. picosecond, nanosecond, microsecond, millisecond, nanosecond  
D. nanosecond, picosecond, millisecond, microsecond.  
E. millisecond, picosecond, millisecond, nanosecond, picosecond.
208. The decimal equivalence of 10111.0112 is  
A. 22.375  
B. 23.75  
C. 23.375  
D. 21.257  
E. 23.011
209. The hexadecimal addition of B4 + 5C will give  
A. 110  
B. F21  
C. F10  
D. F11  
E. F22
210. A classic example of data capture is the usage of  
A. offline sortcr  
B. OMR scanner  
C. encoders  
D. smart card  
E. All of the above
211. Today, the most widely used data coding system for micro computers is  
A. EBCDIC  
B. ASCII  
C. BCD  
D. HEX  
E. BASIC

212. Second generation computers used this programming language  
B. Cobol  
D. Ada
213. The Internet was established as a result of  
a. Conflict  
b. research  
c. negotiation  
d. Sabotage
214. The number of computers in the Internet is  
A. Fixed  
B. 10,000  
C. 2,000  
D. Variable and runs into millions
215. TCP/IP stands for  
A. Transmission  
B. Transfer Control Protocol and Internet Protocol  
C. Transaction  
D. Transportation Cost Process and Internet Practices
216. For a computer to be connected, you need the following, EXCEPT  
A. Modem  
B. Appropriate software  
C. Telephone  
D. Pager
217. Using Internet facilities, all the Universities in Nigeria are proposing their own network, this will be described as  
A. Afronet  
B. Intercom  
C. Intranet  
D. Internet  
E. Extranet
218. Unwanted mail coming with your electronic e-mail is termed  
A. Intrusion  
B. Spam  
C. Virus  
D. Virus
219. Electronic mail from one computer can be sent at a time to  
A. One computer  
B. Two computers  
C. Many computers  
D. A, B, and C  
E. None of the above
220. URL stands for  
A. Uniform Resource Locator  
B. Uniform Resource Locator  
C. University Resource Locator  
D. Universal Resource Locator

221. The basic language for creating web sites on the Internet is

- A. Cobol
- B. Visual Basic
- C. html
- D. Pascal

222. To link one page on the web to another you should use

- A. GOTO
- B. Hyperlink
- C. Hypertext
- D. Wires
- E. Wireless.

223. Some benefits of the Internet are

- A. Communication
- B. Data interchange
- C. Money transfer
- D. All of these
- E. A only

224. e-business includes which of the following:

- A. e-commerce
- B. electronic data interchange EDI
- C. EFT electronic funds transfer
- D. all of these
- E. B only

225. A network that exposes the user to various research centers around the world is

- A. MNET
- B. TELNET
- C. MTN
- D. WELNET

226. VSAT is an acronym for

- A. VBOOT
- B. VNENET
- C. Very small aperture Telecom
- D. Vmobile
- E. Very Small aperture Terminal

227. To enhance the quality of text image or objects on a web page, you can use

- A. any script language
- B. JavaScript
- C. ASP
- D. RB script
- E. A or B or C

228. Which of the following is Not available on the Internet?

- A. FTP
- B. Gopher
- C. WWW
- D. E-mail
- E. none of these

229. You have sent an e-mail to a friend in London, on arrival at destination,

- A. destroyed
- B. returned to you
- C. deposited in recipients' mailbox
- D. converted to a virus
- E. changed to a utility program and kept in the ROM

230.

- FTP is an acronym for
- A. Fortran Transaction Protocol
  - B. File Transfer Protocol
  - C. File Transportation Protocol
  - D. File Teleprocessing
  - E. File Teleprocessing Program

231. Before your browser can connect to a website, you must first supply the

- A. e-mail Address
- B. folio
- C. file
- D. Netscape name
- E. Uniform Resource Locator URL

232. Identify the true statement here

- A. a page can contains many web sites
- B. a page must contain only one website
- C. a website can contain many web pages
- D. contents of a web page cannot be altered
- E. a web page cannot contain coloured pictures

233. you surf the Internet, the hand symbol that carries you from one page or

- website to another
- A. gopher
  - B. hyperlink
  - C. FTC
  - D. Spam
  - E. JavaScript

234. This command or program connects you to remote

- Internet.
- A. HYPERNET
  - B. TELNET
  - C. ARPANET
  - D. AFRONET
  - E. VNENET

235. A method whereby you can connect to a remote computer site and transfer

- publicly available sites to your own PC is called
- A. downloading
  - B. file transfer protocol FTP
  - C. TELNET
  - D. DOWNNET
  - E. Copynet.

236. The quantity of data, text, voice, video, etc that can be sent via a

- communication channel at a time through the Internet is called
- A. packet
  - B. bandwidth
  - C. sound
  - D. Term byte
  - E. band volume

237.

- The following are examples of input devices except
- a. Floppy disk drive
  - b. Hard disk drive
  - c. Mouse
  - d. VDU
  - e. None of the above

(e) File transformation

188. Which of these Languages was single-handedly designed by a professor?
- BASIC
  - FORTRAN
  - PASCAL
  - COBOL
  - None of the above.
189. The product of the binary numbers 1011 and 111 is
- impossible
  - 1001101
  - 1101101
  - 1001101
190. The decimal equivalent of 1001.012
- 17.2
  - 27.25
  - 12.75
  - 17.52
191. When converted respectively to binary, octal, and hexadecimal, the decimal number 45 is equivalent to:
- 101101, 55, 20
  - 1000101, 50, 20
  - 1000101, 55, 20
  - 101101, 47, 33
192. The digital computer has an edge over the analog in the following area:
- speed
  - accuracy
  - capacity
  - economy
  - Nothing
193. The motorcar speedometer is a miniature
- analog computer
  - digital computer
  - altimeter
  - laptop
- Use the diagram following to answer the next five (5) questions
- ```

graph TD
    start((start)) --> X[X = 12; sum = 0]
    X --> Y[Y = 2]
    Y --> Decision{Y > X?}
    Decision -- NO --> X
    X --> Print[Print sum]
    Print --> STOP([STOP])
    Decision -- YES --> X
    X --> Y
    Y --> Decision
  
```
194. In box A, what happens can be described as
- installation
  - initialization
  - box activity
  - concession
  - warning
195. What happens in C is
- decision
  - Go to
  - A and B
196. After how many times will the loop terminate?
- 4
  - 5
  - 6
  - 7
  - 8
197. The final value of X is
- 0
  - 1
  - 1
  - 20
  - 2
198. What happens in B is
- action
  - reaction
  - decision
  - initialization
  - algebraic maths
199. In the program the number of loop(s) is
- 1
  - 2
  - 3
  - 4
  - 5
200. The command in line 20 terminates in line
- 40
  - 50
  - 30
  - 10
  - 20
201. The word "GOOD" is printed how many times?
- 5
  - 3
  - 8
  - 15
  - 2
202. The number of lines required to print "GOOD" is
- 15
  - 2
  - 3
  - 6
  - 4
203. The equivalence of the number 100110110112 in the octal system is
- 11673
  - 11672
  - 203
  - 2143
  - 11672

156. The difference between the technologies of the third and fourth generation computers was:

- (a) The absence of valves
- (b) The presence of micro-computers
- (c) The presence of ICs
- (d) Improvement in scale of integration of ICs
- (e) None of the above.

157. Most general purpose computers can perform almost any task why?

- (a) Because they are very powerful
- (b) Because the tasks are programmable
- (c) Because they are very fast
- (d) Because they are portable
- (e) Because they are clever

158. Which of the following is not part of the CPU?

- (a) RAM
- (b) Hard disk
- (c) Memory
- (d) Control unit
- (e) A.L.U.

159. Operating systems are of various types depending on the area of use. Which of the following is not one of them?

- (a) Multi - user
- (b) Single - user
- (c) Double - user
- (d) Network
- (e) Windows.

160. This software is designed for manipulating words

- (a) Wordperfect
- (b) LOTUS 1-2-3
- (c) DOS
- (d) Operating system
- (e) none of the above

161. This software is designed for processing spreadsheet

- (a) Wordperfect
- (b) LOTUS 1-2-3
- (c) DOS
- (d) operating system
- (e) none of the above

162. Local Area Network means

- (a) network of local areas
- (b) road junctions in local governments
- (c) network news broadcast
- (d) interconnection of workstations or computers within a small area
- (e) none of the above.

In the next two(2) questions arithmetic is done by complementation;

163. To achieve 1011 - 011, the one's complement of 011 is:

- (a) 0100
- (b) 0101
- (c) 1100
- (d) 1101
- (e) None

164. To solve  $2510 - 1010$ , the one's complement of 1010 added to 2510 is:
- (a) 0111
  - (b) 1110
  - (c) 0101
  - (d) 10000

165. A suite of programs that ensures the efficient use of the computing resources is called:
- (a) Operating system
  - (b) Interpreter
  - (c) Compiler
  - (d) Assembler.
  - (e) Language translator

166. Which of the following best describes a digital computer

- (a) Input memory, processor denser only
- (b) Input memory, processor stored program
- (c) Input, memory, processor output only
- (d) Input, memory, processor, stored program, output
- (e) None of the above

167. A hybrid computer consists of

- (a) Mainframe and mini - computers
- (b) Mainframe and micro - computers
- (c) Mini - computer and micro - computers
- (d) Analog and digital computers
- (e) Laptop and notebook computers

168. The major component of the first generation computers was

- (a) Mechanical control devices
- (b) Transistors
- (c) Large scale integration component
- (d) Electronic values
- (e) All of the above

169. Within the computer every form of data is represented as

- (a) Analog signal
- (b) Numeric digits 0 - 9
- (c) Alphabetic characters
- (d) Alphanumeric characters
- (e) Binary patterns

170. Which of the following is true

- (a) Computers can solve all business problems.
- (b) Computers have natural intelligence
- (c) Computers use artificial intelligence
- (d) Output from computer is always accurate
- (e) All of the above.

171. Which of the following defines computer software?

- (a) Instructions in a written in English
- (b) Programs written in low - level language only
- (c) None

179. \_\_\_\_\_ is a type of printer?  
 (a) 3.5" HD  
 (b) 5.25" DS/DD  
 (c) Character, 8bits  
 (d) 3.5QD  
 (e) None of the above.
180. One of the following is not a feature of 3rd generation computers?  
 (a) Expert system  
 (b) IC  
 (c) Medium-Scale integration  
 (d) Procedural Language  
 (e) Database concept
181. An integrated package performs a variety of operations which includes:  
 (a) Word processing, games processing and database management.  
 (b) Spread sheeting, graphics processing and desktop publishing.  
 (c) Word processing, Spread sheeting and database management.  
 (d) Communicating with other software, games processing and graphics processing.  
 (e) None of the above
182. A router  
 (a) Sends data through compatible protocol paths  
 (b) Regenerates digital signals without change  
 (c) Converts electrical signals into audio form  
 (d) Sends data through incompatible protocol paths  
 (e) Is responsible for the logic and network communication
183. Which of the following is true ? Time-Sharing can be achieved on  
 (a) A single user system  
 (b) An online multi - user system  
 (c) An online single or multi - user system  
 (d) An offline multi - user system  
 (e) None of the above.
184. A terabyte equals  
 (a) 1024 bytes  
 (b) 1024<sup>2</sup> bytes  
 (c) 1024<sup>3</sup> bytes  
 (d) 1024<sup>4</sup> bytes  
 (e) 1024<sup>5</sup> bytes.
185. The BCD of 864 is  
 (a) 1000 0110 0010  
 (b) 1000 0100 0010  
 (c) 1000 0110 0100  
 (d) 1000 0110 0100  
 (e) None of the above.
186. The symbols of the octal system are  
 (a) 0, 2, 4, 6, 8  
 (b) 0, 1, 2, 3, 4, 5, 6, 7  
 (c) 0, 1, 3, 5, 7  
 (d) 0, 1, 2, 3, 4, 5, 6, 7, 8  
 (e) None of the above
187. Which of the functions below is not performed by the utility program?  
 (a) File conversion  
 (b) File copy  
 (c) File organisation  
 (d) File maintenance  
 (e) File conversion

138 What is the name given to the sequence of steps, which a computer follows?

- a Instructions
- b Analysis
- c Algorithms
- d Application software
- e Flowcharts

139 Looping is a fundamental technique and is one of the most powerful tools of

- a Programming
- b Computing
- c Analyzing
- d Commanding
- e Designing

140 What is the name of the block diagram that gives the step-by-step process of how a computer program works?

- a Program flowchart
- b Program layout
- c Logical planning
- d Structured programming
- e Bar chart

141 In a computer program, the process of executing the same instructions over and over is called:

- a Charting
- b Branching
- c Looping
- d Debugging
- e Circulating

142 What is the common name given to a program written in any one of the high level languages

- a Object program
- b Computer program
- c System program
- d Source program
- e Application program

143 For large projects a more efficient way to debug and test each subprogram is to run the program  
a as soon as it is written  
b as soon as its compiler is ready  
c as soon as it can be read and understood  
d wait until the project has been completely coded  
e All of the above

144 Integrated circuit was invented by Jack S. Kilby in \_\_\_\_\_  
a 1948  
b 1958  
c 1962  
d 1971

145 The DNA computer was successfully used in 1994 by Leonard Adleman  
a 1937, Alan Turing  
b 1890, Herman Hollerith  
c None of the above  
d 1642, Blaise Pascal

146 Digital computers \_\_\_\_\_ things  
a measure  
b count  
c Manipulate

147 The abstract machine was introduced in \_\_\_\_\_ by \_\_\_\_\_

- a 1642, Blaise Pascal
- b 1390, Herman Hollerith
- c 1937, Alan Turing
- d 1963, John Kemeny
- e 1994, Leonard Adleman

148 Shot in \_\_\_\_\_ used a quantum computer to solved a hard problem

- a 1937
- b 1948
- c 1962
- d 1981
- e 1994

149 A computer-generated output that allows programmers follow the execution of their programs line by line is a:

- a Core dump
- b Tracing routine
- c Source listing
- d Detail listing
- e Spy detector

150 The first programmable calculating device was developed by \_\_\_\_\_

- a Blaise Pascal
- b Herman Hollerith
- c John Kemeny
- d Charles Babbage
- e Alan Turing

151 The system command used to store a program within the computer is the:

- a STORE command
- b HOLD command
- c SAVE command
- d All of the above
- e None of the above

152. The BCD of 864 is

- (a) 1000 0110 0010
- (b) 1000 0010 0100
- (c) 1000 0100 0010
- (d) 1000 0110 0100
- (e) None of the above.

153. The symbols of the octal system are

- (a) 0, 2, 4, 6, 8
- (b) 0, 1, 2, 3, 4, 5, 6, 7,
- (c) 0, 1, 3, 5, 7
- (d) 0, 1, 2, 3, 4, 5, 6, 7, 8
- (e) None of the above

154. Which one of the following codes is used in non-IBM machines ?

- (a) BCD
- (b) EBCDIC
- (c) ASCII
- (d) Gray code
- (e) Excess - 3 code

155. Printed circuits, diodes and transistors first appeared in the:

- (a) first generation
- (b) second generation
- (c) third generation
- (d) fourth generation
- (e) fifth generation.

- 108 What is a group of 8 bits usually called?  
a Bitie  
b Byte  
c Bright  
d Blight  
e Bike

109 How much memory is in one megabyte?

- a About 100 bytes.  
b About 1000 bytes.  
c About one million bytes.  
d About one billion bytes.  
e About one trillion bytes.

110 Which of the following can be associated with an array in BASIC?

- a The DIM statement must be the first program statement.  
b A subscripted variable must identify data in the array.  
c Each array name defines the type of data to be stored within it.  
d All of the above  
e None of the above

111 The system command used to store a program within the computer is the:

- a STORE command  
b HOLD command  
c SAVE command  
d None of the above

112 What hardware components (of a typical desktop computer) are usually found inside of the systems unit?

- a The processor, main memory, and secondary memory  
b The processor, main memory, and monitor  
c First, second, and third memory  
d The keyboard, the disks, and the audio blaster  
e The Printer, Monitor, and Processor

113 Where are programs and data kept while the processor is using them?

- a Main memory  
b Secondary memory  
c Tape memory  
d Disk memory  
e Program memory

114 A temporary storage area attached to the CPU for I/O operation is a:

- a Channel  
b Buffer  
c Register  
d Core  
e Bus

115 How is it possible that both programs and data can be stored on the same floppy disk?

- a Floppy disks can only store programs, not data  
b Programs and data are both software, and both can be stored on any memory device

- c A floppy disk has to be formatted for one or for the other  
d Floppy disks can only store data, not programs  
e A floppy disk has two sides, one for data and one for programs

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117 What are the two general types of programs

- a Word processors and Databases  
b Microsoft and IBM  
c System software and Application software  
d FORTRAN and COBOL  
e Entertainment and Productivity

118 What does the word binary mean?

- a Binary means "containing a computer."  
b Binary means "having only two states."  
c Binary means "having a discrete number of values."  
d Binary means "using electronics to do arithmetic."  
e Binary means "having continuous flow of data items"

119 What is NOT an advantage of building computers out of binary devices?

- a Binary devices are simple and easy to build.  
b Binary signals are unambiguous.  
c Binary devices are much faster than decimal devices.  
d Patterns of bits can be used to represent anything symbolic  
e None of the above

120 Which of the following is NOT an advantage of building computers out of binary devices?

- a Binary devices are simple and easy to build.  
b Binary signals are unambiguous.  
c Binary devices are much faster than decimal devices.  
d Patterns of bits can be used to represent anything symbolic  
e All of the above

121 What is true of an analog signal?

- a An analog signal has a discrete number of states  
b An analog signal is the only way that music can be recorded  
c An analog signal can never be converted into a binary signal  
d An analog signal is usually continuously changing in value  
e None of the above

- 122 If an analog signal picks up some noise, has information been lost?  
a Yes the noise hides the exact values of the original signal  
b No  
c Noise information has been added to the signal  
d May  
e None of the above

123

Why does a computer have a clock?

- a The state of binary signals is measured only at specific instants in time
- b A clock is needed to check how fast signals are changing
- c A clock is needed to check that voltage levels are correct
- d A clock is used only with application programs that need to know the current time
- e A clock is used to generate random numbers for the computer

124

Can Igbo language be represented in a computer?

- a No only English can be represented.
- b No only languages with an alphabet can be represented
- c Yes but a special processor chip is needed
- d Yes since it is symbolic, and anything symbolic can be represented
- e Yes it can be translated in software

125

What part of a computer system is most directly concerned with performing the actions called for by a program?

- a The hard disk
- b Main Memory
- c The Processor
- d The Monitor

126 The only function of a NOT gate is to

- a Stop a signal
- b Recomplement a signal
- c Invert an input signal
- d Act as a universal gate

127 What is a machine operation

- a Any activity of any part of the computer system
- b One of the tiny electronic operations that a processor can perform
- c A section of main memory that is part of a computer program
- d An activity of the operating system needed to run a program.
- e A flip of the machine time

128 Which one of the following statements is FALSE?

- a A machine language program is a sequence of machine language instructions in main memory
- b A machine language program is also known as an executable program
- c The processor runs a program one machine instruction at a time
- d Each machine instruction can be used only once
- e All of the above

129 What is the primary requisite of a good computer programmer

- a Mathematical background
- b Artistic mind
- c Scientific knowledge
- d Logical mind
- e None of the above

130

In computer programming, the most important part of problem solving is:

- a Formulating an algorithm
- b Making block diagrams
- c Making a flowchart
- d Defining the problem clearly
- e None of the above

131

A computer terminal refers to

- a Input devices only
- b Output devices only
- c Central Processing Unit
- d Input and Output devices only
- e Input, Output, and Central Processing Unit

132

The process of identifying and correcting mistakes in a computer program is referred to as:

- a Debugging
- b Validation
- c Verification
- d Desk checking
- e None of the above

133

Usually, it takes 10-bits to represent one character. How many characters can be transmitted at a speed of 1200 BPS

- a 10
- b 12
- c 120
- d 1200
- e 1250

134

The computer mode used by an airline for seat reservation is:

- a Batch processing
- b Time sharing
- c Real time
- d On-line
- e Multi-programming

135

What are the advantages of using pre-written software packages?

- a Saves time and cost
- b Eliminates program writing
- c Eliminates program testing
- d All of the above
- e None of the above

136

A repeater is:

- a a device set at intervals along a network
- b a device that generates signals
- c a device that retransmits
- d a device that regenerates or boosts signals to prevent decay
- e None of the above

137

A person who writes programs is called:

- a A systems analyst
- b A Systems designer
- c A data processor
- d A programmer
- e A hardware engineer

94. The greatest panacea against incidence of computer virus is

- (a) Avoid use of diskette
- (b) Consults an oracle
- (c) Preventive measures and vigilance
- (d) Avoid fast running software
- (e) Purchase comprehensive insurance policy

95. Identify the true statement here:

- (a) RAM and ROM have the same storage size
- (b) RAM is less than ROM in storage size
- (c) Storage is equal in size to RAM, ROM
- (d) ROM and RAM are parts of the Main memory
- (e) None of the above

96. \_\_\_\_\_ is not an example of an input device

- (a) Keypunch machine
- (b) Multimedia wooters
- (c) Keyboard
- (d) Light pen
- (e) Flat scanner

97. The OCR method of input is best suited to one of the following applications:

- (a) NEPA billing
- (b) Grading of JAMB examination
- (c) Airline seat reservation
- (d) Payroll processing
- (e) None of the above

98. The OMR method of input is best suited to one of the following applications:

- (a) NEPA billing system
- (b) Grading of JAMB examination
- (c) Airline seat reservation
- (d) Payroll processing
- (e) None of the above

99. Why are computers getting smaller by the day?

- (a) Technology
- (b) Reduced cost of maintenance
- (c) Politics
- (d) People
- (e) None of the above

100. The second generation computer language is:

- (a) Declarative Language
- (b) Object oriented language
- (c) Assembly language
- (d) Machine language
- (e) Procedural language

101. In the evaluation of a computer language, all of the following characteristics should be considered except:

- a. Efficiency
- b. Software development aids
- c. Readability
- d. Application-oriented features
- e. Hardware maintenance costs

102. A computer-generated output that allows programmers to follow the execution of their programs line by line is

- a. Core dump
- b. Tracing routine
- c. Source listing
- d. Detail listing
- e. Spy detector

103. The first programmable calculating device was developed by

- a. Blaise Pascal
- b. Herman Hollerith
- c. John Kemeny
- d. Charles Babbage
- e. Alan Turing

104. Which of the following factors are required in the selection of a programming language?

- a. Programmer skill
- b. Language availability
- c. Program compatibility with other software
- d. All of the above
- e. None of the above

105. A router

- a. Sends data through incompatible protocol paths
- b. Regenerates digital signals without change
- c. Sends data through compatible protocol paths
- d. Converts electrical signals into audio form
- e. Is responsible for the logic and network communication.

106. What is a bit?

- a. A value of "one."
- b. A large section of computer memory.
- c. A single on/off value.
- d. Enough memory to store a character.
- e. A collection of several bytes

107. Which one of the following statements is FALSE?

- a. The method used to implement a bit does not affect the information it represents.
- b. A bit may be implemented as a small part of a magnetic disk.
- c. Copying a bit from one medium to another does not affect the information it represents.
- d. A bit is always implemented as something electrical.
- e. A bit is a binary representation on the digital computer

73. BASIC was designed initially for program in  
a. United Kingdom b. time-sharing  
c. System-3 d. analog computation  
e. batch processing

79. The first generation computer language is  
(a) Declarative Language  
(b) Procedural language  
(c) Object oriented language  
(d) Machine language  
(e) Assembly language

80. Which of the following is not part of the CPU?  
(a) RAM (b) Control unit  
(c) A.L.U (d) tape  
(e) None of the above

81. Analog computers \_\_\_\_\_ things  
a. measure b. count  
c. read d. manipulate  
c. compute

82. CPU has elements of  
a. logic, secondary storage, communication  
b. primary storage, arithmetic, secondary storage  
c. primary storage, logic, arithmetic  
d. arithmetic, communication, logic  
e. none of the above

83. Mechanism for reading and writing a floppy disk on a desktop computer includes  
(a) User inserts the disk into a floppy drive  
(b) User types a command to read or write  
(c) The drive spins the disk  
(d) read/write head gets in touch with the disk surface  
(e) All of the above.

84. Formatting disk means  
(a) Issuing commands to the computer  
(b) Preparing disk drive to accept floppy disk  
(c) Issuing commands to the operating system and the computer  
(d) Preparing disk for reading and writing in a computer  
(e) None of the above

85. This is not true  
(a) Hard disk has large storage capacity  
(b) Some hard disks are removable  
(c) Hard disk is faster to access than floppy disk  
(d) Hard disk is usually fixed to the system unit  
(e) It is not wise to use hard disk, removable or not, as backup.

86. Which of the following statement is false?  
(a) Mainframes are larger than micros  
(b) Minis are larger than micros  
(c) Micros are in between mainframes and minis in size  
(d) Micros were manufactured in the fourth generation  
(e) Personal computers are cheaper than mainframes

87. Which of the following is not a characteristic of computers?  
(a) Reliable (b) Non-programmable  
(c) Accurate (d) Consistent  
(e) All of the above.

88. A computer terminal refers to:  
(a) Memory unit (b) CPU  
(c) Input or output device (d) All of the above  
(e) None of the above.
89. Use of binary numbers for storing data and the stored program concept were the ideas suggested by  
(a) Hollerith (b) Newmann  
(c) Abacus (d) Pascal  
(e) Eckert and Mauchly.
90. Parallel processing is a highlight of  
(a) Unix (b) Newmann  
(c) Boroughs 1700 mainframe (d) Millions of instructions processed per second-MIPS  
(e) Fifth generation computers (f) Size of the hard disk  
(g) Intel 8080 processor (h) A and B  
(i) Fax machine (j) A and C.
91. The computing power of a computer depends on  
(a) Clock speed designated by the mega hertz  
(b) Millions of instructions processed per second-MIPS  
(c) Size of the hard disk  
(d) A and B  
(e) A and C.
92. One of the following is not capable of mass storage of data  
(a) Drum (b) 5.25 DD diskette  
(c) disk (d) Tape  
(e) microfilm
93. Why are computers getting smaller by the day?  
(a) Cost of production (b) Technology  
(c) Politics (d) a & c  
(e) a & b

62. Computer peripherals include \_\_\_\_\_ and \_\_\_\_\_

devices

- (a) Control and logic devices
- (b) Input and control devices
- (c) Input and output devices
- (d) Output and logic devices
- (e) Output and control devices

63.

MICR are suitable for reading magnetic inks on \_\_\_\_\_

devices

- (a) Airplanes
- (b) Bank cheques
- (c) Bank Tellers
- (d) Domestic products
- (e) None of the above

64.

Which of the following is not software?

devices

- (a) Computer program utilities
- (b) User program
- (c) Diskette
- (d) Desktop Packages.
- (e) MS-DOS

65.

The unit of measurement of storage is \_\_\_\_\_

devices

- (a) Byte
- (b) byte
- (c) Duyte
- (d) digits
- (e) None of the above.

66.

Computers may be classified by size. Which of the following is correct?

devices

- (a) Digital, laptop, mini
- (b) Mini,digital, mainframe
- (c) Notebook, mini, mainframe
- (d) Micro, analogue, digital
- (e) None of the above.

67.

introduced the use of punched cards to computing

devices

- (a) Howard Aikin
- (b) Lady Lovelace
- (c) Charles Babbage
- (d) Herman Hollerith
- (e) Leibniz.

68.

Computer system is different from a calculator because the computer contains:

devices

- (a) Input and output devices
- (b) Software and control unit
- (c) CPU and output device
- (d) Auxiliary and main memories
- (e) None of the above.

69.

In terms of data representation, computer can be classified into the following :

devices

- (a) Special-purpose, programmable and nonprogrammable
- (b) Analog, special purpose and general purpose
- (c) Analog, Hybrid and special - purpose
- (d) Analog, digital and hybrid
- (e) Digital, programmable and special - purpose.

70. Which of the following is used to read data on paper into the computer

devices

- (a) Mouse
- (b) Compiler
- (c) Camera
- (d) Scanner
- (e) Keyboard

71. The mouse is used to perform the following operations

devices

- (a) Pointing to/selecting an object
- (b) Scanning object into the memory
- (c) Performing data input/entry
- (d) a, b and c
- (e) a and c only

72. Microcomputers are products of development in one of the following areas

devices

- (a) VLSI, microprocessor
- (b) IC, Values.
- (c) MSI, micros.
- (d) None of the above.
- (e) Robotics, AC

73. Multimedia refers to one of the following

devices

- (a) Text and video
- (b) Sound and images
- (c) video and desktop
- (d) video and images
- (e) none of the above.

74. The hardware components of a computer system does not include:

devices

- (a) printer
- (b) Magnetic tape
- (c) Light pen
- (d) COBOL
- (e) RAM

75. Why are mainframe computers housed in special facilities? Because

devices

- (a) They have special power
- (b) they are costly
- (c) of environmental control requirements
- (d) a & b
- (e) a & c.

76. A modem converts

devices

- (a) Electrical signals from a computer into analog signals transmittable over telephone lines
- (b) Electrical signals from a computer into hybrid signals transmittable over telephone lines
- (c) Electrical signals from a computer into digital signals transmittable over telephone lines.
- (d) None of the above.
- (e) All of the above.

77. The product of the binary numbers 1011 and 111 is

devices

- a. 010010
- b. 1001101
- c. 11101101
- d. 1001101
- e. 1100101

27

The most widely used data coding system for microcomputers is

- a ASCII
- b BCD
- c EBCDIC
- d EDVAC

28

What does a computer language compiler do?

- a It takes a source file as input and produces an executable program as output.
- b It takes an executable program as input and runs it on the computer memory.
- c It translates a program in main memory into a program on secondary memory.
- d It accepts the input of a program and sends it to the Arithmetic Logic Unit (ALU).
- e It takes the output of a program and displays it on the computer monitor.

29

What is a computer network?

- a Two or more computers connected together to exchange data and programs.
- b A computer that can run many programs from its hard disk.
- c A group of computers that share the same power supply.
- d A computer that is used by many different human users.
- e A computer that shares many hardware resources among users.

30

What are the two general types of programs?

- a Entertainment and Productivity.
- b Word processors and Databases.
- c Microsoft and IBM.
- d System software and Application software.
- e General Purpose and User-defined specific

31

What is an operating system?

- a Systems software that manages only the software components of a computer system.
- b Systems software that coordinates the hardware and software components of a computer system.
- c A section of software that must be part of every program.
- d One part of the hardware that operates the mouse and the windows on a monitor.
- e A type of software that manages only the hardware components of a computer system.

32

The software that allows terminals to communicate with each other in an environment where a system is the host is called the \_\_\_\_\_

- a Single-User operating system
- b Multi-User operating system
- c Network operating system
- d Intranet operating system
- e Extranet operating system

33

EBCDIC is an acronym for

- a Extended Binary Coded Decimal Information Code
- b Extended Binary Coded Decimal for International Code
- c Extended Binary Coded Decimal Interchange Code
- d Extended Binary Coded Decimal for Information Code

34

What is the role of the operating system in managing files?

- a The operating system will access files that contain application programs and start the application running, but the applications totally manage their own files.
- b The operating system is only concerned with the files it needs for itself.
- c Everything done to or with files on a computer system involves the operating system.
- d The operating system handles only the files that are not in the main memory.
- e The operating system is not involved with files; it just keeps the hardware running.

35

The ASCII equivalent of the word Rose is \_\_\_\_\_

- a 10100101010111100111100101
- b 110001010101111100111100101
- c 110001010111111100111100101
- d 101001010011110000111000101
- e 110001010110011100111100101

36

MODEM is an acronym for

- a Modulator-Demodulation
- b Modulation -Demodulation
- c Modulator-Demodulator
- d Modulator-Demodulator
- e Modulator-Demodulator

37

\_\_\_\_\_ is a matter of having more than one application program resident in random access memory.

- a Multitasking
- b Real-time processing
- c Multiprocessing
- d Batch processing
- e On-line processing

*Match each term with the description that fits best in the five (5) questions.*

- a LAN
- b Node
- c Router
- d Bridge
- e Gateway

38

A computer connected to a network.

- a Computer network usually limited to a building.
- b LAN
- c Intranet
- d Extranet
- e LAN

- 9 The bulk of a personal computer memory is the  
 a RAM b ROM  
 c Registers d Processor
- 10 One of the following is not a storage device  
 a RAM b Floppy Disk  
 c Winchester Disk d Mouse  
 e one of the above
- 11 The ALU performs all but not ONE of the following  
 a Automatic operations b Logic operations  
 c Shifting operation d Jumping operations  
 e Binding operations
- 12 ALU supervises the execution of instructions  
 a ALU b Memory  
 c Auxiliary storage d Control unit  
 e ROM.
- 13 Memory is not a peripheral unit  
 a Fixed Disk b Keyboard  
 c Joystick d Card reader
- 14 Line printers is not an example of impact printer  
 a Daisy wheel b Ink-Jet  
 c Dot matrix d Teletypes
- 15 A common name for objects that include the combination of diagrams, graphs, charts, moving images, sound and animation is  
 a Networking b WORMS  
 c Multimedia d Integrated devices
- 16 The symbol for processing in a program flowchart is  
 a Circle b Oval  
 c Rectangle d Parallelogram  
 e Diamond
- 17 In flowchart the diamond shape is used for  
 a Input/Output b Input/Output  
 c Start/Stop d Decision making  
 e Connection
- 18 Which of the following is a Database package?  
 a Supercalc b Microsoft Access  
 c Slatbase d Lotus 1-2-3  
 e Microsoft Word
- 19 \_\_\_\_\_ is an integrated package  
 a Paradox b Adobe PageMaker  
 c Linux d Microsoft Office XP
- 20 The spreadsheet program is best suited for  
 a Drawings b Creating letters  
 c Numerical work d Presentations and talks  
 e Software development
- 21 What is the difference between hardware and software?  
 a Hardware is tangible, but software is intangible.  
 b Hardware is static, software is dynamic.  
 c Hardware is metal, software is plastic.  
 d Hardware is permanent, software is temporary.  
 e Hardware is reliable, software is unreliable
- 22 An example of a low level language is \_\_\_\_\_  
 a Pascal b RPG  
 c PL/I d Perl  
 e None of the above
- 23 What is a source program?  
 a The program that the processor is executing at a particular instance  
 b The collection of virtual machine processor directives  
 c A text file created by a programmer containing instructions written in a high level language  
 d A collection of machine instructions that the processor can execute  
 e A collection of programming processors
- 24 ASCII is an acronym for  
 a American Standard Code for Information International  
 b American Standard Code for International Interchange  
 c American Standard Code for Information Interchange  
 d American Standard Code for International Interchange  
 e American Standard Code for International Information
- 25 The processing in which records are updated instantaneously is called  
 a Distributed processing b Batch processing  
 c Real time processing d On-line processing  
 e Concurrent processing
- 26 What is a nibble?  
 a A nibble is a collection of two binary values  
 b A nibble is a collection of four binary values  
 c A nibble is a collection of eight binary values  
 d A nibble is a collection of sixteen binary values  
 e A nibble is a collection of multiple binary values

117 The operator  $<>$  signifies:

- a Equal to
- b Greater than
- c Less than
- d Greater than or equal to
- e None of the above

118 Which operator is not in the class of operator below

- a  $=$
- b  $\leq$
- c  $\geq$
- d  $>$
- e \*

119 The following is/are example(s) of logical operators:

- a AND only
- b OR only
- c NOT only
- d a, b & c
- e  $\&$ ,  $\oplus$  only

120 \_\_\_\_\_ is used to repeat a sequence of instructions for a particular number of times until certain condition(s) is(are) satisfied?

- a Branching
- b Sequence
- c Decision
- d Looping
- e Jump

1 A computer program is a sequence of \_\_\_\_\_ into which a given problem is reduced

- a Data
- b Instruction
- c Output
- d Program
- e None of the above

2 Programming a computer to solve a problem demands a great deal of

- a Creating
- b Planning
- c logical reasoning
- d All of the above
- e None of the above

3 A complete and precise statement of the problem to be solved is termed

- a Problem Definition
- b Problem Analysis
- c Problem solving
- d Designing and algorithm
- e Problem selection

4 Which of these are not true about functions

- a They differ from commands and statements in that they cannot be performed by themselves.
- b They must be used in conjunction with either an statement or a command
- c If used with an assignment statement, the function must appear on the right hand side of the sign.
- d All of the above
- e None of the above

5 A flowchart generally has the following major parts

- a Starting point
- b Data imputing
- c Processing
- d Data outputting
- e All of the above

6 In an algorithm, a notation written as  $x \leftarrow x + I$  means

- a  $x$  equal  $x + I$
- b  $x + I$  is assigned to  $x$
- c  $x + I$  goes to  $x$
- d  $x$  comes from  $x + I$

7 Which of the following statement is true about control unit?

- a It obtains the address to be obeyed from the input device
- b It decodes the instructions into high level language
- c It increments the program counter
- d It includes the program counter, the instruction registration and the decoder
- e c and d

8 You have to \_\_\_\_\_ a diskette if you need to lock it against accidental erasure

- a format
- b. read-only
- c write-protect
- d. upgrade
- e read/write

91

The symbol labeled (iv) is known as

- a input symbol
- b output symbol
- c input/output symbol
- d decision symbol
- e connector

92

The symbol labeled (iv) is known as

- a input symbol
- b output symbol
- c input/output symbol
- d connector
- e logic flow

93

Which of the symbols above is used as the start or stop symbol?

- a symbol (i)
- b symbol (ii)
- c symbol (iii)
- d symbol (iv)
- e symbol (v)

94

Which of the symbols above is used for computational or mathematical processing?

- a symbol (i)
- b symbol (ii)
- c symbol (iii)
- d symbol (iv)
- e symbol (v)

95

State how to declare a variable in VB?

- a Dim variable name As Datatype.
- b Dim Datatype As variable name.
- c Dim basic variable name As Datatype.
- d Dim input variable name As Datatype.
- e Dim output variable As Datatype.

96

Which of the following is a valid BASIC expression

- a  $A=2^*5^*r$
- b  $A:=2^*5^*r$
- c  $A:=2*3.14^*r$
- d  $A=2*3^*14^*r$
- e None of the above

97

A student gave the solution below as the program to add integers from 1 to 19.

1. Sub main()
2. Dim num, sum as integer
3. sum = 0
4. For num= 1 to 19
5. writeln("enter the first number:" ,)
6. num = readln()
7. sum = sum + num
8. Next
9. writeln("The sum is :" & sum)
10. End sub

Pick out the incorrect line(s) of code

- |               |               |
|---------------|---------------|
| a line 3      | b lines 4 & 5 |
| c lines 5 & 6 | d line 9      |
| e lines 2 & 9 |               |

98

\_\_\_\_\_ is the memory location where data is stored, in programming?

- |            |            |
|------------|------------|
| a Address  | b Input    |
| c Output   | d Variable |
| e Datatype |            |

99

$A(n)$  \_\_\_\_\_ is the logical and concise listing of steps required to solve a problem?

- |             |            |
|-------------|------------|
| a algorithm | b variable |
| c flowchart | d symbol   |
| e datatype  |            |

100

One of the following is a valid variable name in VB

- |          |                |
|----------|----------------|
| a &int   | b Dim          |
| c Select | d InterestRate |
| e %Index |                |

101

A program to add the positive integers from 1 to 100 is given below:

1. Sub main()
2. Dim i, sum as integer
3. sum =0
4. For i= 1 to 100
5. sum = sum +
6. Next
7. writeln("Product of 1 to 12 is :" & pdt)
8. End sub

What is the missing arithmetic operator that should be

- |         |       |
|---------|-------|
| a i     | b sum |
| c & sum | d i-1 |

102

A program to multiply the positive integers from 1 to 12 is given below:

1. Sub main()
2. Dim i, pdt as integer
3. pdt =1
4. For i= 1 to 12
5. pdt = pdt
6. Next
7. writeln("Product of 1 to 12 is :" & pdt)
8. End sub

What is the missing arithmetic operator that should be

- |     |     |
|-----|-----|
| a / | b * |
| c ^ | d + |
|     | -   |

- 103 One of the following is not an arithmetic operator in Visual Basic  
 a + b MOD c = d ^  
 c /

104 The code below calculates the average of six numbers.  
 10 REM CALCULATE THE AVERAGE OF SIX  
 NUMBERS

```
20 READ A,B,C,D,E,F
30 SI = A+B+C+D+E+F
40 AVG = SI/X
50 PRINT "AVERAGE:" AVG
60 END
```

In the code: AVG = SI/x; What is the value of x?  
 a 3 b 4 c 5 d 6 e none of the above

105 The following For-Next loop makes \_\_\_\_\_ passes.  
 Sum=0  
 For I = 1 to 20  
 Sum=Sum + 1  
 Next I

|   |    |   |    |
|---|----|---|----|
| a | 19 | b | 18 |
| c | 20 | d | 21 |
| e | 22 |   |    |

106 Which of the following is the correct sequence of steps to start a new project in Visual Basic 6.0?  
 a Start → All Programs → Visual Basic 6.0  
 b All Programs → Visual Basic 6.0 → Start  
 c Visual Basic 6.0 → All Programs → Start  
 d All Programs → Start → Visual Basic 6.0  
 e Visual Basic 6.0 → Start → All Programs

107 Another name for MOD (that is, modulus function) is  
 a integer division  
 b integer remainder  
 c logical function  
 d integer multiplier  
 e integer divisor

108 \_\_\_\_\_ is a word or phrase that is reserved for exclusive use of Visual Basic.  
 a Keyword  
 b Linkwork  
 c Exclusive word  
 d Buzzword  
 e None of the above

- 109 \_\_\_\_\_ is a numeric or string value that does not change in a program.  
 a Variable  
 b Constant  
 c Function  
 d Operator  
 e Real quantity

Evaluate the following expressions:

104       $2 \bmod 4 =$       a 2      b 3  
 c 0      d 5  
 e 6

105       $9 \bmod 2^2 =$       a 2      b 3  
 c 4      d 5  
 e 1

Given the following segment of code:

106       $x=0$   
 For i = 1 To 5  
 x = x + i  
 Next i  
 What will be the final value of x?  
 a 2 b 14 c 15  
 e 16 d 55

107       $(2*3+4/2)>3 \text{ AND } 3<5 \text{ OR } 10>9$   
 a False b True  
 c 34 d 45  
 e None of the above

108      True AND True OR NOT False AND NOT True OR False =  
 a False b True c none  
 d both a and b e All of the above

109 Another name for comparison operator is:  
 a Arithmetic operator  
 b Relational operator  
 c Logical operator  
 d Unary operator  
 e Shift operator

- 76 The magnetic tape is best described as a(n) \_\_\_\_\_
- 77 The dot matrix printer is an example of \_\_\_\_\_
- 78 The digital camera is an example of \_\_\_\_\_
- 79 Its speed is measured in gigahertz.
- 80 Blu-ray is a(n) \_\_\_\_\_.
- 81 In programming, which of the steps below are involved in a problem solving process:  
 a Specify the Problem Requirement.  
 b Analyze the Problem  
 c Design the Algorithm  
 d a and c  
 e a, b and c
- 82 Below is the pictorial representation of phases of the software life cycle.  
 Fill the missing phases.
- 
- In the above pictorial; I, II, III, IV, stands for what?
- I Maintenance Specification Refining Verification  
 II Maintenance Specification Verification Refining  
 III Maintenance Specification Refining Verification  
 IV Maintenance Specification Refining Verification
- 83 The popular definition of an algorithm as a recipe of the solution to problem is given by \_\_\_\_\_.  
 a Donald Knuth  
 b Blaise Pascal  
 c Von Neumann  
 d Charles Baggage  
 e None of the above

- 84 The following are the important features of an algorithm EXCEPT  
 a Finiteness  
 b Effectiveness  
 c Process  
 d Definiteness  
 e Input
- 85 The statement  $i = i-1$  means  
 a  $i$  equal  $i-1$   
 b  $i-1$  is assigned to  $i$   
 c  $i-1$  goes to  $i$   
 d  $i$  comes from  $i-1$   
 e  $i$  is equivalent to  $i-1$
- 86 The expression,  $X^3$  means  
 a  $X \cdot X \cdot X$   
 b  $X \cdot 3$   
 c  $X / 3$   
 d  $X < 3$   
 e  $X > 3$
- 87 The statement  $X \cdot Z$  means  
 a  $X$  equals to  $Z$   
 b assign the value of variable  $X$  to variable  $Z$   
 c assign the value of variable  $Z$  to variable  $X$   
 d  $X$  is less than  $Z$   
 e  $X$  is equivalent to  $Z$
- 88 The expression  $A < B$  means  
 a  $A$  equals to  $B$   
 b  $B$  is less than  $A$   
 c  $A$  is greater than  $B$   
 d  $A$  is less than  $B$   
 e  $A$  divided by  $B$
- Answer Questions 89 to 94 using the flowchart symbols labeled (i), (ii), (iii), (iv), (v) below.
- i ii iii iv v
- 89 The symbol labeled (i) is known as  
 a input symbol!  
 b output symbol  
 c input/output symbol  
 d decision symbol  
 e logic flow
- 90 The symbol labeled (ii) is known as  
 a input symbol  
 b output symbol  
 c input/output symbol  
 d decision symbol  
 e logic flow

60

The early form of computer memory which was made up of tiny rings of magnetic materials, threaded on wires by hand is called \_\_\_\_\_.

- a Metallic Oxide Residual Memory
- b Magnetic Residual Memory
- c Semiconductor Memory
- d Cores
- e Serial Magnetic core memory

61

Which of these is stored in Read-Only-Memory?

- a Peopleware
- b Middleware
- c Hardware
- d Firmware
- e Software

62

The difference between semiconductor memory and auxiliary storage devices is that \_\_\_\_\_.

- a auxiliary storage devices are faster and less expensive while semiconductor memory are opposite.
- b semiconductor devices are slower and less expensive while auxiliary storage devices are opposite.
- c semiconductor memory are slower, volatile and more expensive while Auxiliary storage are opposite.
- d semiconductor memory are faster, volatile and more expensive while Auxiliary storage are opposite.
- e semiconductor memory are slower, not volatile and more expensive while Auxiliary storage are opposite.

63

One major disadvantage of the CD-ROM and WORM (Write once/ read many) is that \_\_\_\_\_.

- a Information is not easily erasable or written over
- b Information is not permanently stored on them
- c Information is abridged when re-accessed
- d Information is not easily accessible
- e Information is easily lost

64

Which of these is not an example of floppy disks?

- a 8 inch floppy disk
- b 3½ inch floppy disk
- c 5¼ inch floppy disk
- d 3¼ inch floppy disk
- e None of the above

65 Computer software can be divided into two major groups namely \_\_\_\_\_.

- a Solution and Application software
- b Translators and Application software
- c System and Custom software
- d System and Application software
- e Utility and Application software

Use the options below to answer Questions 66-68

- a Operating system
- b Operating Software
- c Application Software
- d System Software
- e Translators

66

The suite of programs that facilitate the optimal use of the hardware systems and/or provides suitable environment for the writing, editing, debugging, testing and running of user programs is called \_\_\_\_\_.

67

The suite of programs acting as an interface between the users of computers and the hardware is called \_\_\_\_\_.

68

The suite of languages that helps in translating programs written in a programming language to their machine language equivalent is called \_\_\_\_\_.

- a Windows 95
- b Windows 98
- c MS DOS
- d Microsoft Vista
- e Window Server 2003

69

Examples of single user system are the following except one.

70

Which is a multi-user system?

- a UBUNTU
- b PC-DOS
- c XENIX
- d UNIX
- e NOVELL

71

Which of these user systems is a Network user system

- a , UBUNTU
- b PC-DOS
- c XENIX
- d UNIX
- e NOVELL

72

The similarity among Assemblers, Interpreters and Compilers is that they have equal processes

- b they consume much memory
- c they are language translators
- d they are language reformers
- e they are language transformers

Use the options below to answer Questions 73 to 80

- a Input Device
- b Output Device
- c Storage Device
- d Memory
- e Central Processing Unit

73

\_\_\_\_\_ has the ALU and the CU as its components.

74

\_\_\_\_\_ is an area within the computer system that holds data waiting to be processed.

75 The scanner is an example of \_\_\_\_\_

23 A set of commands used to create web documents

24 A software that allows you to access the web

25 A collection of websites that can be accessed by using hypertext interface

26 Used to transfer files from host to host

27 Allows remote login to another computer

28 \_\_\_\_\_ processing requires an operating system, transaction application and backup.

a Real time  
b Online  
c Batch  
d Time sharing  
e All of the above

29

The extra bit of the ASCII code is known as \_\_\_\_\_ bit.

a extra  
b priority  
c parity  
d input  
e Use options a & c to answer questions 30 - 34

a bridge  
b router  
c modem  
d repeater  
e gateway

30 A device that connects incompatible networks

31 A device that helps boost analogue signals

32 A device that converts electrical signals into analogue form transmittable on a phone line

33 A device that forms an interface between two similar LAN's

34 A device that sends data through compatible protocol path.

35 Which of this is/are required for security on a network?

a Physical security  
b Personal Identification  
c Password  
d All of the above  
e None of the above

36 What is the result of  $110101 + 10001$ ?

a , 100010  
b 101010  
c , 100010  
d 110010  
e 11001101

37

A device that responds to request is known as \_\_\_\_\_.

a Client  
b Servicer  
c None of the above  
d respondere  
e

38

What is 1's complement of 100101101

a 111010010  
b 011010010  
c 01110110  
d 010110010  
e 011100110

39

Which of these operating systems is owned by Google?

a Windows  
b Mac  
c Android  
d Unix  
e Linux

40

Which of the following is not a social networking application?

a Facebook  
b Twitter  
c Google+  
d MySpace  
e None of the above

41

A computer system can be described as

i an electronic device  
ii an electrical device  
iii a mechanical device

iv a device for carrying data  
v a device for storing and processing data  
vi a device that works based on some given logic

42

Bead Frame (Abacus) is said to have originated from \_\_\_\_\_.

a Greece and Ancient Rome in 8th century  
b Old China and Old Egypt in 3rd century  
c Old China in the 7th century  
d Old China in the 8th century  
e Abacis in Greece 450 A.D

43

The first true adding machine was invented in 1642 by \_\_\_\_\_.

a Abacus Flames  
b Charles Garbage  
c Charles Babbage  
d Charles Babbage  
e Blaise Pascal

44

A German philosopher, Gottfried Leibniz, invented the calculator in \_\_\_\_\_.

a 1909  
b 1571  
c 1911  
d 1867  
e 1671

EDVAC stands for

- a Elaborate Discrete Value Computer
- b Elaborate Dual Value Computer
- c Electronic Dual Value Computer
- d Electronic Discrete Value Computer
- e Electronic Discrete Variable Computer

The Analytic and Difference engines were invented by \_\_\_\_\_.

- a Abacus Flames
- b Charles Garbage
- c Charles Bagge
- d Charles Babbage
- e Blaise Pascal

Which of these scientists worked on the ENIAC project?

- a John Von Neumann, Steve Jobs, Aristotle
- b Bill Gates, Steve Jobs, Herman Goldstine
- c John Von Neumann, Herman Goldstine, Arthur W. Burks
- d Herman Goldstine, Steve Jobs, Arthur W. Burks
- e John Von Neumann, Bill Gates, Herman Goldstine

Which of these characterize first generation computers?

- a They are portable and easy to use
- b They occupy large space and require perpetual human intervention
- c They occupy large space and have high processing capability
- d They dissipate a lot heat and have small circuits with no human intervention
- e They were easily programmable and dissipate little heat.

An example of first generation computer is \_\_\_\_\_.

- a Compaq Presario
- b UNIX Servers
- c IBM1021
- d UNIVAC 1103
- e None of the above

First generation computers used \_\_\_\_\_.

- a transistor and capacitors
- b indactors and X-ray Tubes
- c thermionic Valves and wires
- d printed circuitry boards
- e integrated circuits and transistor

Second generation computers were made in the \_\_\_\_\_.

- a Mid 1940b
- b Mid 1950
- c Mid 1960d
- d Mid 1970
- e Mid 1980

First generation computers were made in the \_\_\_\_\_.

- a Mid 1940b
- b Mid 1950
- c Mid 1960d
- d Mid 1970
- e Mid 1980

First generation computers were made in the \_\_\_\_\_.

- a Mid 1940b
- b Mid 1950
- c Mid 1960d
- d Mid 1970
- e Mid 1980

Integrated circuits were first used in \_\_\_\_\_ computers.

- a First generation
- b Second generation
- c Third generation
- d Fourth generation
- e Fifth generation

In third generation computers, MOS stands for \_\_\_\_\_.

- a Mobile Operating systems
- b Medium Ordered Systems
- c Magnetic Operating Systems
- d Metal Oxide Semiconductor
- e Metallic Operating Systems

The introduction of microprocessors led to the production of \_\_\_\_\_ micro-computers.

- a fifth generation
- b sixth generation
- c fourth generation
- d third generation
- e second generation

Generation of computers mostly in use today is the \_\_\_\_\_.

- a fifth
- b sixth
- c fourth
- d third
- e second

Central processing unit or processor, main memory and peripheral units are \_\_\_\_\_ components.

- a firmware
- b peopleware
- c software
- d control unit cache
- e middleware hardware

Special storage memory used by the control unit is called \_\_\_\_\_.

- a accumulator
- b registers
- c control unit cache
- d hard disks
- e BIOS

Short programs or instructions written by the manufacturer in order to start up the computer system are called \_\_\_\_\_.

- a peopleware
- b firmware
- c software
- d hardware
- e hardware

- 6 The world wide web was invented by \_\_\_\_\_
- Steve Jobs
  - Bill Gates
  - Tim Berners-Lee
  - Larry Ellison
  - Charles Babbage
- 7 Which of this a mail transfer protocol?
- SMTP
  - HTML
  - UML
  - XML
  - XHTML
- 8 The transfer of data from a local computer to a remote computer is \_\_\_\_\_
- downloading
  - loading
  - posting
  - copying
  - uploading
- 9 Which of this is true about a browser?
- Sends and receive E-mails
  - Reads messages from newsgroups
  - Browse the web
  - All of the above
  - None of the above
- 10 \_\_\_\_\_ is an online discussion group that does not send direct E-mail to members.
- Listserv
  - telnet
  - Usenet
  - Petri net
  - gopher
- 11 Which of this is a metasearch engine?
- Google
  - Yahoo
  - Lycos
  - Ask
  - Dogpile
- 12 A self contained program that affects computers over a network is called \_\_\_\_\_
- virus
  - bacteria
  - worm
  - trojan
  - all of the above
- 13 \_\_\_\_\_ is a language for describing web pages.
- HTTP
  - FTP
  - HTML
  - TCP/IP
  - DNS
- 14 Which of this is not a search engine? ^
- Yahoo
  - Safari
  - Ask
  - Ding
  - Google
- 15 A personal article posted on the web for public access is called \_\_\_\_\_.  
 a news watch  
 b usenet  
 c blog  
 d Chat  
 e E-mail
- 16 The primary purpose of the internet is \_\_\_\_\_.  
 a to facilitate information sharing  
 b for entertainment  
 c for chatting  
 d for business  
 e All of the above
- 17 An underlined word on a web page is usually a(n) — \_\_\_\_\_.  
 a Mistake  
 b Important word  
 c Hyperlink  
 d Web address  
 e None of the above
- 18 Another name for a URL is?  
 a ISP address  
 b Web address  
 c IPS address  
 d Web site  
 e None of the above
- 19 The decimal equivalent of 0.10112 is  
 a 0.875  
 b 0.6215  
 c 0.6175  
 d 0.8215  
 e 0.6875
- 20 Interconnectivity between independent and semi independent computers is termed \_\_\_\_\_.  
 a networks  
 b networking  
 c sharing  
 d distributing  
 e network
- 21 When converted respectively to binary, octal and hexadecimal, the decimal number 65 is?  
 a 110101, 76, 37  
 b 110011, 81, 51  
 c 110001, 81, 51  
 d 1000001, 81, 41  
 e 11010, 57, 73
- 22 Which of the following can be used to find information on the web?  
 a Search engine  
 b Directories  
 c Databases  
 d All of the above  
 e None of the above
- Choose the best option from a - e to answer questions 23 - 27.
- WWW
  - Telnet
  - HTML
  - Browser
  - FTP

- a Hardware is reliable, software is unreliable  
 b Hardware is static, software is dynamic.  
 c Hardware is metal, software is plastic.  
 d Hardware is permanent, software is temporary.  
 e Hardware is tangible, but software is intangible.
- 53) The set of instructions that controls the function of the computer is \_\_\_\_\_.
   
 a Registers    b Software    c ALU    d Buses    e Registers
- 60) Which of the following is an example of a floppy disk?
   
 a 3 inch floppy disk    b 3 1/4 inch floppy disk?    c None of the above
- 61) Which of the following is a mobile operating system?
   
 a Linux    b Unix    c MAC    d IOS    e Ubuntu
- 62) Which of the following is the ODD member?
   
 a Debian    b Ubuntu    c Fedora    d RedHat    e None of the above
- 63) What is a source program?
   
 a The program that the processor is executing at a particular instance  
 b The collection of virtual machine processor directives  
 c A text file created by a programmer containing instructions written in a high level language  
 d A collection of machine instructions that the processor can execute  
 e A collection of programming processors
- 64) What are the two general types of software?
   
 a Entertainment and Productivity.  
 b System and Application  
 c Microsoft and IBM.  
 d Word processors and Databases.  
 e General Purpose and User-defined specific
- 65) Which of the following does not belong to the group?
   
 a CD-ROM    b DVD    c Blue-ray    d CD R/W    e None of these
- 66) Which of the following is not a storage device?
   
 a Floppy disk    b WORM    c Tape    d CD ROM    e Hard disk
- 67) Which of the following operating systems is owned by Microsoft?
   
 a Linux    b Android    c Windows    d MAC    e Blackberry
- 68) Which of the following has a dual purpose?
   
 a plotter    b webcam    c touchpad    d stylus pen    e scanner
- 69) \_\_\_\_\_ is a suite of programs that ensures the efficient use of computing resources
   
 a Compiler    b Assembler    c Interpreter    d Operating system  
 e Language translator
- 70) Which of the following is used to read data on paper into the computer
   
 a Scanner    b Compiler    c Keyboard    d Camera    e Mouse
- 71) Which of the following is used to mark answer scripts?
   
 a Barcode reader    b Magnetic card reader    c Card reader  
 d Optical mark reader    e Magnetic ink card reader
- 72) Which of the following is not an application package?
   
 a Photoshop    b WinZip    c Excel    d Oracle    e SPSS
- Use this information to answer the next three (3) questions
- (i) Bar code reader, (ii) floppy disk drive, (iii) VDU, (iv) CD ROM, (v) camera
- 73) Example of input device(s) include \_\_\_\_\_.
   
 a (i) only    b (i), (ii), and (iii)    c (i) and (v)    d (i), (ii), (iii), and (v)  
 e (i), (ii), (iii), (iv), and (v)
- 74) Example of output device(s) include \_\_\_\_\_.
   
 a (iii) only    b (i) and (ii)    c (iii), (iv), and (v)  
 d (ii), (iii), and (iv)    e (iii) and (v)
- 75) Example of storage device(s) include \_\_\_\_\_.
   
 a (iv) only    b (i) and (ii)    c (ii) and (iv)    d (ii), (iii), and (iv)  
 e (iii) and (v)
- 76) \_\_\_\_\_ supervises the execution of instructions
   
 a ALU    b Control unit    c Memory    d Auxiliary storage  
 e ROM
- 77) Which of the following can be referred as the computer's brain?
   
 a Mother board    b Monitor    c CPU    d Buses    e Control unit
- 78) Which of the following is an example of an open source operating system?
   
 a Windows    b MAC    c IOS    d Linux    e Blackberry
- 79) Which of this is an example of a database application
   
 a MS Word    b MS Access    c MS Excel    d MS PowerPoint
- 80) Which of the following is the working area of the computer?
   
 a RAM    b ROM    c Monitor    d Printer    e Plotter
- 81) Which language does the computer understand?
   
 a Low level language    b High level language  
 c Machine level language    d All of the above    e None of the above
- 82) \_\_\_\_\_ is a program tailored for specific needs and installed permanent in the ROM.
   
 a Firmware    b Malware    c Trojan    d Formware    e None of the above
- 83) What is the full meaning of ASCII?
   
 a American Standard Code for information interchange  
 b American Standard Code for International information  
 c African Standard Code for information interchange  
 d All Standard Code for information interchange  
 e None of the above
- 84) Which of this Error will the computer not detect?
   
 a Syntax Error    b Logical Error    c Run Time Error  
 d All of the above    e None of the above
- 85) Which of these acronyms is a standardized well-known character cod
   
 a EBCDIC    b ICT    c IBM    d WAN    e MIS
- 86) The oval shape in a flowchart stand for what?
   
 a Start    b Decision    c Input    d Connector    e Out
- 87) The decimal equivalent of 71 in octal number is \_\_\_\_\_.
   
 a 57    b 71    c 64    d 6    e 7
- 88) Which of these is not an important feature of an Algorithm
   
 a Finiteness    b Input    c Definiteness    d Effectiveness    e Turir
- 89) Which of these is a major reason for writing programs?
   
 a To have fun on the computer  
 b To solve problems  
 c Elimination of arithmetic and logic!  
 d Elimination of information  
 e None of the above
- 90) What is the bit size of a word INTEL 80808 Microprocessor?
   
 a 32    b 64    c 16    d 12    e 8
- 91) The smallest unit length of a computer memory is called?
   
 a Bit    b Word    c Single word    d Byte    e Double word
- 92) Which of these is not used in number systems in computer system.
   
 a Hexadecimal    b Binary    c Octal    d Decimal    e Inference engin
- 93) In BCD system, the largest number that can be represented is \_\_\_\_\_.
   
 a 1010<sub>2</sub>    b 1100<sub>2</sub>    c 1011<sub>2</sub>    d 1111<sub>2</sub>    e 1001<sub>2</sub>
- 94) Convert the decimal number 17 to Hexadecimal number
   
 a 11    b B    c 1B    d 13    e 12
- 95) The binary equivalent of 12.625 is:
   
 a 110.100    b 1010.110    c 1100.101    d 1100.110    e None of the above
- 96) Convert the binary number 101011 to Octal number.
   
 a 45    b 40    c 50    d 53    e 60
- 97) Which of these is not among the stages involved in programming?
   
 a Analysis of the problem and modelling  
 b Problem Definition  
 c Selecting and devising an algorithm  
 d Documentation  
 e None of the above
- 98) Which form of binary can not be added or subtracted like the pure binary?
   
 a Binary coded Decimal(BCD)  
 b Decimal coded binary(DCB)  
 c Coded Information Binary(CIB)  
 d Information coded Binary(ICB)  
 e None of the above
- 99) What is an Algorithm?
   
 a Step by step ways of solving a problem  
 b Its hardware that operates the mouse and windows on the monitor.  
 c It is a way of opening a system  
 d Its an antivirus for the system  
 e It is a modern programming language

\_\_\_\_\_ is a type of diagram that represents an algorithm or process, showing the steps as boxes of various kinds, and their order by connecting these with arrows?

- 11 Which of this is correct about Analysis of problem and modelling?  
a Input b Output c Procedure d All of the above e None of the above

102 The binary number 00010101 is \_\_\_\_\_ in Hexadecimal?

- a 14 b 15 c 10 d 20 e None of the above

103 Binary operation  $101010 + 000110 = ?$

- a 100011 b 110000 c 100100 d 100100 e 100010

104 The one's complement  $1001 - 0111$  is

- a 1111 b 1010 c 1110 d 1001 e 1101

105 To achieve  $10111 - 01011$ , the two's complement of 01011 is

- a 10101 b 01010 c 00100 d 1101 e 11101

106 How many bit does an ASCII code has

- a 4 bits b 12 bits c 8 bits d 32 bits e 64 bits

107 Convert the given binary number 100101 to Octal number

- a 21 b 35 c 45 d 25 e 55

108 The number system used by the computer system is  
a Binary b Octal c Decimal d Hexadecimal e None of the above

109 Convert Octal number 25 to binary number

- a 110110 b 001100 c 010101 d 111111 e 111000

110 When the user clicks a button, \_\_\_\_\_ is triggered.  
a an event b a method c a setting d a property e None of the above

111 Which of the following arithmetic operations has the highest level of precedence?  
a + b \* c ^ d / e None of the above

112 What is the correct statement when declaring and assigning the value of 100 to an Integer variable called numPeople

- a Dim numPeople = Integer = 100  
b Dim numPeople = Int(100)  
c Dim Variable numPeople As 100  
d Dim numPeople As Integer = 100  
e Dim numPeople = Integer(100)

113 What value will be assigned to the numeric variable x when the following statement is executed?  $x = 2 + 3 ^ 4$

- a 20 b 14 c 162 d 625 e 234

114 Which of the following is a valid name for a variable?  
a 21 b 2One c Two One d Two.One e Two\_Une

115 Keywords in Visual Basic are words that

- a should be used when naming variables.  
b are used to name controls, such as TextBox1, Command2, etc.  
c have special meaning and should not be used when naming variables.  
d are used as prefixes for control names (such as txt, btm, lbl, and lst).  
e None of the above

116 Which of the following is a valid Visual Basic conditional statement?

- a  $2 < n \& 5$  b  $2 < n \text{ Or } < 5$  c  $(2 < n \text{ and } 5)$   
d  $(2 < n) \text{ Or } (n < 5)$  e  $(2 < n) ^ (n < 5)$

117 Which value for x would make the following condition true:  $x \geq 5$

- a x is equal to 7 b x is equal to 5 c x is equal to 5.001  
d All of the above e None of the above

118 Which value of x makes the following condition true:  $(x \geq 5) \text{ And } (x < 7)$

- a x is equal to 7 b x is equal to 5 c x is equal to 5.001  
d All of the above e B and C

119 Constructs in which an If block is contained inside another If block are called:

- a nested If blocks  
b sequential If blocks  
c multi-If blocks  
d If Else blocks  
e None of the above

120 Which Case clause will be true whenever the value of the selector in a

Select Case block is between 1 and 5 or is 8?

- a Case 1 To 8 b Case 1 To 5, 8 c Case 1 To 8, 5 d Case 1 To 5; 8  
e Case 1 To 8 skip 5

Visual Basic is a tool that allows you to develop application in .....  
a Real time b Graphical User Interface  
c Menu Driver d Commands and Controls interface  
e Labels and Buttons interface

121 Which window displays a list of all forms and modules making up your application  
a Project window b Properties window c Form layout window  
d All of the above e None of the above

122 Which of the following windows is the central to the development of Visual Basic applications?  
a Project window b Form window c Properties window  
d Toolbox window e All of the above

123 The default datatype for Visual Basic is .....  
a Integer b Long c Variant d String e Double

124 In Visual Basic, a repetition statement is controlled by .....  
a for loop b loop condition c loop index d start value e end vi

125 In Visual Basic, a variable name cannot be more than ..... characters  
a 512 b 255 c 200 d 128 e 256

126 For i = 0 to 7 step 2  
Print "blast off"  
Next i

How many times will the code section above execute the print statement?  
a 2 b 5 c 4 d 7 e 8

127 What is the final value of the variable sum in the code section below?  
For i = 0 to 20 step 3  
sum = sum + i

Next i  
a 210 b 63 c 88 d 54 e None of the above

128 The following are valid relational operators in VB except  
a < b > c <> d = e ==

129 The two major types of control statements are:  
a Branching and Scoring b Doubling and Looping  
c Branching and Looping d Looping and Choosing e Selecting and Doubling

- , The technology on which the fourth generation of computers were built is \_\_\_\_\_
- Magnetic drum
  - Microprocessors
  - Magnetic valves
  - Thermionic valve
  - Transistors
- 27 What is the processing speed of the third generation of computers? \_\_\_\_\_
- Terasconds
  - Milliseconds
  - Nanoseconds
  - Gigaseconds
  - Microseconds
- 28 Which of the following statements is false? \_\_\_\_\_
- The Web is not a service that runs on top of the Internet infrastructure
  - The Internet is a massive network of computers
  - The Internet was conceptualized in 1969 by the ARPA.
  - E-mail and FTP are some of the services that run over the Internet include.
  - The Web is a collection of web pages that can be accessed via the Internet.
- 29 A system which processes data instructions without any delay is called: \_\_\_\_\_
- Real-time system
  - Online system
  - Distributed system
  - Time-sharing system
  - All of the above
- 30 Hotel reservations, bank ATMs, and radar systems are examples of \_\_\_\_\_
- Online processing
  - Batch processing
  - Distributed-data processing
  - Real-time processing
  - Time-sharing processing
- 31 You use your computer to chat via ----- with a friend living in another country.
- Intranet
  - LAN
  - Extranet
  - Internet
  - Ethernet
- 32 What connects multiple computer networks together? \_\_\_\_\_
- Switch
  - Router
  - Server
  - Modem
  - Trunk
- 33 The Internet was established as a result of \_\_\_\_\_
- Conflict
  - Negotiation
  - Research
  - Sabotage
  - Cold War
- 34 \_\_\_\_\_ is used to regenerate signals so that the strength of the signal remains the same over a longer distance.
- Router
  - Modem
  - Repeaters
  - Server
  - Network
- 35 Which network topology requires terminators? \_\_\_\_\_
- Bus
  - Star
  - Ring
  - Options a and c
  - Options a and b
- 36 The following are merits of decentralization of the Internet except \_\_\_\_\_
- No central computer
  - Regulation of objectionable content is almost impossible
  - Authority is decentralized
  - Any individual computer can join the Internet and be treated as an equal
  - None of the above
- 37 Which of the following statements best describes an organization's intranet? \_\_\_\_\_
- A public, internal, local area network to access information across some parts of the organization.
  - A public, external corporate network to access information across the entire organization.
  - A private, internal, wide area network to access information across the entire organization.
  - A private, internal, corporate network to access information across the entire organization.
  - All of the above
- 38 \_\_\_\_\_ is an interconnection of computers to share data and resources
- Arpanet
  - Client-server
  - LAN
  - Network
  - Internet
- 39 Peer-to-peer networks tends to be relatively \_\_\_\_\_
- Big
  - Small
  - Equal
  - Complicated
  - None of the above
- 40 Which of these processing systems groups the jobs together and then execute? \_\_\_\_\_
- Time-sharing
  - Real-time
  - Serial
  - Online
  - Batch
- 41 Which one does not belong in the group?
- Firefox
  - Google Chrome
  - Unix
  - Opera
  - Internet Explorer
- 42 Internet discussion groups, such as Google groups, are types of \_\_\_\_\_
- Usenet
  - FTP
  - Telnet
  - Listserv
  - None of the above
- 43 The following are types of computer networks except \_\_\_\_\_
- WAN
  - Client-Server
  - P2P
  - Hierarchical
  - LAN
- 44 One of the following is an advantage of time-sharing processing mode
- Memory is economical
  - Computer time is economically used
  - There is no room for monopoly
  - All of the above
  - None of the above
- 45 A network that exposes the user to various research centers around the world is \_\_\_\_\_
- FTP
  - Telnet
  - Listserv
  - Usenet
  - Webnet
- 46 Cloud computing systems use ----- processing?
- Batch
  - Online
  - Real-time
  - Distributed-data
  - Time-sharing
- 47 ZY agency has been hired by XL Corporation to provide services. XL allows ZY to use their ----- to access important information about their company.
- Intranet
  - Extranet
  - Internet
  - Virtual Private Network
  - Wide Area Network
- 48 Below are network security policies that can be adopted except
- Password
  - Alarm system
  - Guard at the door
  - Personal ID
  - All of the above
- 49 Two computers connected via any transmission media to exchange data is \_\_\_\_\_
- Network
  - Internet
  - Intranet
  - Extranet
  - All of the above
- 50 ARPAnet initially connected 4 major mainframe computers located in:
- Texas and Utah
  - California and New York
  - Utah and California
  - California and \_\_\_\_\_
  - Boston
- 51 What is a computer network?
- A network that can run system programs from its hard disk.
  - Two or more computers that share the same power supply.
  - A computer that shares many hardware resources among users.
  - Two or more computers connected together to exchange data.
  - A computer that is used by many different human users
- 52 TCP stands for \_\_\_\_\_
- Tested Contact Protocol
  - Transmission Control Protocol
  - Tested Control Protocol
  - Tested Communication Protocol
  - Transmission Communication Protocol
- 53 In star network topology,
- Each node connects to two other nodes in the network.
  - Each node is connected one after the other in a sequential chain.
  - Each node is individually connected to a central connection point
  - Each node is connected to at least three other nodes in the network
  - Each node connects the star trunk to the branch wires
- 54 \_\_\_\_\_ is a standard network protocol used for transferring files on a network
- Telnet
  - Usenet
  - FTP
  - Listserv
  - Browsers
- 55 Which network topology contains a trunk that runs the length of the network?
- Star
  - Bus
  - Ring
  - a and b
  - a and c
- 56 A Compiler \_\_\_\_\_
- accepts a source program, translates and executes the whole of it into machine language.
  - accepts a source program in assembly language and translates to object program, called object code.
  - translates source code from a high-level programming language to a lower level language
  - communicates instructions to a machine particularly a computer.
  - All of the above
- 57 What is an operating system?
- Systems software that manages only the software components of a computer system.
  - A section of software that must be part of every program.
  - Systems software that coordinates the hardware and software components of a computer system.
  - The part of the hardware that operates the mouse and the windows, the monitor.
  - Systems software that manages only the hardware components of a computer system.

Name in Full (Surname First): \_\_\_\_\_

Faculty / Department:

Instructions:

- 1 Answer all questions.
- 2 Write and shade correctly the information required on your OMR sheet.
- 3 Write legibly at the back of the OMR sheet, your Name in full (surname underlined) and Matriculation number
- 4 Shade the correct answer to each question on your OMR sheet.
- 5 Submit both your question paper and OMR answer sheet after the examination. Your OMR sheet will not be marked if you fail to comply.

- Questions -
- 1 The user of the computer can either be a ----- or -----  
 a Boy or girl      b Man or animal      c Robot or apes  
 d Male or female      e Human or Another machine
  - 2 What makes the computer different from other calculating devices?  
 a Memory      b Display unit  
 c Punch card      d Stored program concept      e storage
  - 3 Which scientist introduced the major distinguishing characteristic of the computers to other calculating?  
 a Pascal      b Von John Neumann      c Barus      d Turing      e Babbage
  - 4 The abstract part of the computer is known as  
 a Hardware      b Application      c Virus      d Software      e Embedded system
  - 5 The main problems solved by the technology that differentiates the computers from all other calculating devices are  
 a Replace all calculation done by computers  
 b Allows computer to operate slowly  
 c End manual Interference of data and output  
 d None of the above  
 e All of the above
  - 6 The physical components of the computer is known as  
 a Virus      b Hardware      c Application      d Software      e Embedded system
  - 7 The first adding machine was invented by \_\_\_\_\_  
 a British man Blaise Pascal  
 b German Blaise Pascal  
 c Frenchman Blaise Pascal  
 d None of the above  
 e All of the above
  - 8 The earliest mechanical aid to calculation was \_\_\_\_\_  
 a Wooden bar      b stick      c Bead frame  
 d String wire      e None of the above
  - 9 What does SSI stand for in transistor density in third generation of computers?  
 a Small scale integration  
 b Smaller scale integration  
 c Small scale integrator  
 d Small scale integrating  
 e None of the above
  - 10 The internal storage of the first generation of computers are made of \_\_\_\_\_  
 a Magnetic drum  
 b Magnetic valves  
 c Transistors  
 d Thermionic valve  
 e Plasma

- 11 The memory of the second generation of computers were built using \_\_\_\_\_  
 a Artificial intelligence  
 b Integrated circuit  
 c Magnetic core  
 d Transistors  
 e Vacuum Tubes
- 12 The analytical machine operated at what number base?  
 a Base 16      b Base 10      c Virus      d Base 8      e None of the above
- 13 A computer that processes continuous signals is called?  
 a Continuous computer      b Hybrid computer      c Analogue computer  
 d Digital computer      e Computer
- 14 p  
 a Metallic oxide semiconductor  
 b Metal oxide semiconductor  
 c Methane oxide semiconductor  
 d None of the above  
 e Metal-oxide semiconductor
- 15 Below are some of the problems of the first generation of computers except \_\_\_\_\_  
 a Heat generation  
 b Cannot be afforded by individuals  
 c Cost of maintenance was cheap  
 d Occupy huge space  
 e Required expert to operate
- 16 What is the full meaning of the acronym ENIAC?  
 a Electronic numerical integrator and calculator  
 b Electronic numeric integrator and calculator  
 c Electronic numerical integrator and calculation  
 d Electric numerical integrator and calculator  
 e Electronic numerical integration and calculator
- 17 The first true adding machine was invented in what year?  
 a 1462      b 1642      c 1644      d 1624      e 1643
- 18 The third generation of computers were built on what technology?  
 a Vacuum Tubes      b Integrated circuit      c Transistors  
 d Artificial intelligence      e None of the above
- 19 When was the first attempt to design an automatic calculating device?  
 a 1823      b 1824      c 1825      d 1832      e 1826
- 20 The input device for the analytical engine was \_\_\_\_\_  
 a Pen      b Loom      c Keyboard      d Scanner      e Punched card
- 21 What does VLSI stand for in transistor density in 3rd generation of computers?  
 a Very largest scale integration  
 b Very large scale integration  
 c Very lager scale integration  
 d Very large scale integrator      e None of the above
- 22 A computer that processes discrete signals is called \_\_\_\_\_  
 a Analogue computer      b Computer      c Digital computer  
 d Hybrid computer      e Continuous computer
- 23 The automated teller machine is an example of what type of computer?  
 a Money purpose      b None purpose      c All purpose  
 d Special purpose      e General purpose
- 24 What is the full meaning of the acronym EDVAC?  
 a Electrode Discrete Variable computer  
 b Electronic Discrete Varying computer  
 c Electronic Discrete Variable computer  
 d Electronic Discrete Value computer  
 e Electric Discrete Variable computer
- 25 The analytical engine was powered by \_\_\_\_\_  
 a Solar power      b DC power      c Battery      d Steam engine  
 e AC power