

# CONFAB SECONDARY SCHOOL

## SECOND TERM EXAMINATION 2019/2020 SESSION

**SUBJECT**                      **COMPUTER STUDIES**  
**CLASS:**                      **S.S.S. 3**  
**DURATION:**                **2 HOURS (120 MINUTES)**

**OBJECTIVES:**                **SECTION A:**  
**INSTRUCTION:**        **Answer all questions in this section.**

1. Who among the following experts contributed to the design of ENIAC machine?  
A. Augustus Ada                      B. G.W. Libnitz  
C. John Mauchly                      D. John Napier
2. The first mechanical counting device called **Abacus** was developed in \_\_\_\_\_.  
A. America                      B. Britain                      C. China                      D. Egypt
3. Convert  $11011_2$  to base 10.  
A. 17                      B. 27                      C. 31                      D. 37                      E. 41
4. The magnetic disk is known as \_\_\_\_\_ access storage medium.  
A. direct                      B. indirect                      C. parallel                      D. sequential  
E. serial
5. What is the major component used in second generation computers?  
A. capacitors                      B. Chips                      C. Integrated Circuits  
D. Transistors                      E. Vacuum tubes
6. What is the name given to a key that uniquely identify a field in database?  
A. Composite                      B. Foreign                      C. Primary                      D. Secondary  
E. Universal
7. In database management, the following features are available, **except** \_\_\_\_\_.  
A. field                      B. file                      C. record                      D. sheet                      E. table

8. Which of the following acronyms contains the answer to the questions most commonly asked by visitors to a website?  
A. AFQ                      B. AQF                      C. FAQ                      D. FQA                      E. QAF
9. Which of the following hexadecimal alphabets stands for twelve (12)?  
A.    B                      B.    C                      C.    D                      D.    E                      E. F
10. The following are abuses of the internet, **except** \_\_\_\_\_  
A.    cyber bullying  
B.    pornography  
C.    hacking  
D.    malware  
E.    spam
11. The following are types of antivirus, **except** \_\_\_\_\_  
A.    Avast                      B.    AVG                      C.    McAfee  
D.    Norton                      E.    Logic bomb
12. Which of the following is not a component of a web design package?  
A.    A solid layout                      B.    Appropriate design element  
C.    Effective typography                      D.    The right colour scheme  
E.    The sheet calculation
13. The acronym **RDBMS** stand for \_\_\_\_\_.  
A.    Recordable Database Management System  
B.    Redundant Database Management System  
C.    Relational Database Management System  
D.    Relationship Database Management System  
E.    Relative Database Management System
14. Which type of computer is the traffic control light called?  
A.    Analog computer                      B.    General purpose computer  
C.    Hybrid computer                      D.    Micro computer  
E.    Special purpose computer
15. The symbol "**Σ**" in mathematical operation in Ms-excel environment is called \_\_\_\_\_.  
A. Auto add                      B. Auto format                      C. Auto sign  
D. Auto sum                      E. Average sign

16. Which of the following Discs stores the highest graphics and sound?  
A. Audio CD    B. Compact Disc    C. DVD  
D. VCD
17. The following are examples of operating system, **except**\_\_\_\_  
A. Lexas    B. Linux    C. MS-DOS  
D. Unix    E. Windows
18. The rules and regulation guiding the use of computers on the network is called\_\_\_\_\_  
A. access right  
B. law  
C. order  
D. protocol  
E. right issue
19. Which of the following carries out File Management Function?  
A. Application software  
B. Operating system  
C. Program language  
D. System software  
E. Utility software
20. Which of the following models is organized into a tree-like structure and allows record in a particular order?  
A. Hierarchical model  
B. Network model  
C. Object-relational model  
D. Relational model  
E. Star schema model

Use the program below to answer questions 21 to 25

```
5   CLS
10  REM PROGRAM SUM OF THREE NUMBERS
20  READ A, B, C
30  DATA 10, 5, 15
40  LET SUM = A + B + C
50  PRINT "SUM = " SUM
60  END
```

21. The values of variables A, B and C are shown in the number line \_\_\_\_  
a. 10            b. 20            c. 30            d. 40            E. 50
22. The output of the program will look like \_\_\_\_  
a. SUM = 10 b. SUM = 20 c. SUM = 30 d. SUM = 50
23. The number line \_\_\_\_ shows the arithmetic operation.  
a. 5            b. 20            c. 30            d. 40            e. 50
24. Which of the statement numbers indicates CLEAR THE SCREEN?  
a. 5            b. 10            c. 30            d. 50            e. 60
25. Which of the following statements is NOT on the program?  
a. ASSIGNMENT statement      b. DATA statement  
c. END statement      d. LOOP statementd. OUTPUT statement
26. The BASIC statement 10 LET X = A + B is a/an \_\_\_\_ statement.  
a. assignment      b. branch      c. input      d. looping      e. output
27. The command which can be used for output in BASIC programming is called \_\_\_\_  
a. CLS b. LET      c. PRINT      d. READ      e. REM
28. Which of these is NOT an arithmetic operator in BASIC?  
a. +            b. -            c. \*            d. /            e. =
29. Character set used in BASIC includes the following EXCEPT \_\_\_\_  
a. alphabetic      b. alpha-numeric      c. codes      d. numeric
30. The BASIC statement below means:  
10    READ B, A, C  
20    DATA 2, 5, 1  
a. The values of A = 1, B = 5, C = 2  
b. The values of A = 5, B = 1, C = 2  
c. The values of A = 2, B = 5, C = 1  
d. The values of A = 5, B = 2, C = 1  
e. The values of A = 1, B = 2, C = 5
31. EBCDIC stands for \_\_\_\_  
a. Extended Binary Coded Decimal Interchange Code  
b. Extended Bit Code Decimal Interchange Code  
c. Extended Bit Case Decimal Interchange Code  
d. Extended Binary Case Decimal Interchange Code

32. ASCII stands for \_\_\_\_\_  
a. American Stable Code for International Interchange  
b. American Standard Case for Institutional Interchange  
c. American Standard Code for Information Interchange  
d. American Standard Code for Interchange Information
33. Which of the following arrangements has the units from the largest to the smallest?  
a. kilobyte, gigabyte, bit, byte, megabyte  
b. gigabyte, megabyte, kilobyte, byte, bit  
c. bit, byte, kilobyte, megabyte, gigabyte  
d. byte, bit, kilobyte, megabyte, gigabyte
34. In a filename, the file extension usually helps one to know the  
a. person that created the file.  
b. date and time the file was created.  
c. date and time the file was modified.  
d. program that the file was created on.
35. Ayomide was asked by his Computer Studies teacher to centre the title of his short story, justify all the paragraphs and underline certain words. The best word to describe these commands is \_\_\_\_  
a. editing.                      b. viewing.                      c. retrieving. d. formatting.
36. The commands that produce duplicate copies of a selected block of text are \_\_\_\_\_  
a. cut and paste.                      b. drag and drop.  
c. copy and paste.                      d. select and delete.
37. The spreadsheet entry error ##### means \_\_\_\_\_  
a. the entry is a date.  
b. the entry is wrong.  
c. the cell contains a number.  
d. there is insufficient space in the cell.
38. The function called **PRODUCT** tells the computer to \_\_\_\_\_  
a. add all the values in the brackets.  
b. count all the values in the brackets.  
c. multiply all the values in the brackets.  
d. either multiply or add all the values in the brackets.

39. The silicon chips used for data processing are called
  - a. RAM chips
  - b. ROM chips
  - c. Micro processors
  - d. PROM chips
40. A computer consists of \_\_\_\_\_
  - a. A central processing unit
  - b. A memory
  - c. Input and output unit
  - d. All of the above
41. An application program that helps the user to change any number and immediately see the result of that change is
  - a. Desktop publishing program
  - b. Database
  - c. Spreadsheet
  - d. All of above
42. The instructions for starting the computer are house on
  - a. Random access memory
  - b. CD-ROMS
  - c. Read only memory chip
  - d. All of above
43. A factor which would strongly influence a business person to adopt a computer is its \_\_\_\_\_
  - a. Accuracy
  - b. Reliability
  - c. Speed
  - d. All of above
44. CAD stands for \_\_\_\_\_
  - a. Computer aided design
  - b. Computer algorithm for design
  - c. Computer application in design
  - d. All of the above
45. RATS stand for \_\_\_\_\_
  - a. Regression Analysis Time Series
  - b. Regression Analysis Time Sharing
  - c. Real Analysis Time Series
  - d. All of above

46. In which language is source program written?
- a. English
  - b. Symbolic
  - c. High level
  - d. Temporary
47. Which of the following is used for manufacturing chips?
- a. Control bus
  - b. Control unit
  - c. Parity unit
  - d. Semiconductor
48. To produce high quality graphics (hardcopy) in color, you would want to use \_
- a. RGB monitor
  - b. Plotter
  - c. Ink-jet printer
  - d. Laser printer
49. Which two input devices can be used to transfer images into the computer?
- A. Touchpad and keyboard
  - B. Microphone and scanner
  - C. Scanner and digital camera
  - D. Digital camera and touchpad
50. Which arrangement best represents storage devices when sorted in order of increasing access speed?
- A. Compact disk, Random Access Memory, Magnetic Tape, Hard disk.
  - B. Random Access Memory, Hard disk, Compact disk, Magnetic tape
  - C. Hard disk, Compact disk, Random Access Memory, Magnetic tape
  - D. Magnetic tape, Compact disk, Hard disk, Random Access Memory.

**SECTION B(THEORY)**  
**INSTRUCTION:** Answer any 5 questions only

**Question 1**

- a. List and draw the eight (8) stages in system development cycle. **{6 marks}**
- b. Explain the following term in system development cycle:
- (i) System
  - (ii) Subsystem
  - (iii) Information System
  - (iv) Program debugging **{4 marks}**

**Question 2**

- a. State the full meaning of "BASIC". **{2 marks}**
- b. State six (6) BASIC key statements. **{3 marks}**
- c. List and explain three BASIC character sets. **{3 marks}**
- d. Write a BASIC program to calculate the area of a rectangle. **{2 marks}**

**Question 3**

- a. Identify six (6) BASIC built-in functions. **{3 marks}**
- b. State the use of the following built-in functions.
- (i) RND (X)
  - (ii) ABS (X)
  - (iii) LOG (X) **{3 marks}**
- c. Write BASIC notation for the following:
- (i)  $\frac{x - y}{x + y}$
  - (ii)  $(a + b) + \frac{c}{\sin d}$
  - (iv)  $e^{x+y} - \sin(x + ny)$
  - (v)  $c = 9c + \frac{32}{5}$  **{2 marks}**
- d. Write a BASIC program to compute the square root of numbers from 10 to 40. **{2 marks}**



#### Question 4

- a. Define Array in BASIC. {2 marks}
- b. List three (3) Operations on Array. {3 marks}
- c. Explain the following basic terminologies:
  - (i) File
  - (ii) Record
  - (iii) Field
  - (iv) Key
  - (v) Networking {5 marks}

#### Question 5

- a. Explain the following number bases with examples:
  - (i) Binary number system
  - (ii) Octal number system
  - (iii) Decimal number system
  - (iv) Hexadecimal number system
  - (v) Duo – decimal number system {5 marks}
- b. List four (4) methods of data representation. {2 marks}
- c.
  - (i) Convert D809F3 in hexadecimal to decimal equivalent.
  - (ii) Convert  $44978_{10}$  to Octadecimal equivalent.
  - (iii)  $100101 + 110101$
  - (iv)  $1101110 - 10111$  {3 marks}

#### Question 6

- a. Define High Level Languages. {2 marks}
- b. State six (6) examples of high level language. {3 marks}
- c. State three (3) advantages of HLL over ML and LLL. {3 marks}
- d. List four (4) different forms of database organization. {2 marks}

### Question 7

- a. List two (2) sources of security breaches. **{2 marks}**
- b. State three (3) preventive measures against security breaches. **{3 marks}**
  
- c. Explain the following terms:
  - (i) Piracy
  - (ii) Hacking
  - (iii) Cyber crimes
  - (iv) Ping
  - (v) Gopher**{5 marks}**

### Question 8

- (a) Define networking. **{2 marks}**
- (b) Discuss three types of network. **{6 marks}**
- (c) What is the difference between the internet and intranet? **{2 marks}**