SC 6181
WASSCE (SC) 2022
COMPUTER
STUDIES 1
1 hour

1

Name: .....

Index Number: .....

THE WEST AFRICAN EXAMINATIONS COUNCIL

West African Senior School Certificate Examination (WASSCE) for School Candidates, 2022

SC 2022 — COMPUTER STUDIES 1 — 1 hour

PAPER 1

OBJECTIVE TEST

[25 marks]

Do **not** *open this booklet until you are told to do so. While you are waiting, write your* **name** *and* **index number** *in the spaces provided at the top right-hand corner of this paper and, thereafter, read the following instructions carefully:*

1. Use **HB pencil** throughout.
2. If you have got a blank answer sheet, complete its top section as follows.
   (*a*) In the space marked *Name*, write in capital letters your **surname** followed by your **other names**.
   (*b*) In the spaces marked *Examination*, *Year*, *Subject* and *Paper*, write '**WASSCE (SC)**','**2022**', '**COMPUTER STUDIES**' and '**1**' respectively.
   (*c*) In the box marked *Index Number*, write your **index number** vertically in the spaces on the left-hand side. There are numbered spaces in line with each digit. Shade carefully the space with the same number as each digit.
   (*d*) In the box marked *Paper Code*, write the digits **618113** in the spaces on the left-hand side. Shade the corresponding numbered spaces in the same way as for your index number.
   (*e*) In the box marked *Sex*, shade the space marked **M** if you are **male**, or **F** if you are **female**.
3. If you have got a pre-printed answer sheet, check that the details are correctly printed, as described in **2** above. In the boxes marked *Index Number*, *Paper Code* and *Sex*, **reshade** each of the shaded spaces.
4. An example is given below. This is for a **male** candidate whose name is **Chinedu Oladapo DIKKO**, whose **index number** is **4251102068** and who is offering **Computer Studies 1.**

THE WEST AFRICAN EXAMINATIONS COUNCIL

PRINT IN BLOCK LETTERS

Name: DIKKO Chinedu Oladapo — Examination: WASSCE (SC) Year: 2022

Surname Other Names

Subject: COMPUTER STUDIES — Paper: 1

INDEX NUMBER
4
2
5
1
1
0
2
0
6
8

PAPER CODE
6
1
8
1
1
3

SEX

Indicate your sex by shading the space marked M (for Male) or F (for Female) in this box: M ■ F □

INSTRUCTIONS TO CANDIDATES

1. Use grade **HB pencil** throughout.
2. Answer each question by choosing one letter and shading it like this: [A] [B] [C] ■
3. Erase completely any answer(s) you wish to change.
4. Leave extra spaces blank if the answer spaces provided are more than you need.
5. Do not make any markings across the heavy black marks at the right-hand edge of your answer sheet.

For Supervisors only.
If candidate is absent shade this space: □

02561803

Answer **all** *the questions.*

Each *question is followed by* **four** *options lettered* A *to* D. *Find the correct option for* **each** *question and shade* **in pencil**, *on your answer sheet, the answer space which bears the same letter as the option you have chosen.*

Give only **one** answer to **each** *question. An example is given below.*

The computer's physical parts attached to the system unit are called

A. hardware units.
B. input units.
C. output units.
D. peripheral units.

The correct answer is peripheral units, *which is lettered* D, *and therefore answer space* D *would be shaded.*

[A] [B] [C] [■D■]

Think carefully before you shade the answer spaces; erase completely any answer(s) you wish to change.

Do **all** *rough work on this question paper.*

Now answer the following questions.

1. One-millionth of a second is also referred to as
   A. nanosecond.
   B. microsecond.
   C. millisecond.
   D. picosecond.

2. Examples of quantitative data type are
   A. continuous and discrete.
   B. local and foreign.
   C. nominal and ordinal.
   D. primary and secondary.

3. One difference between *data* and *information* is that
   A. data is meaningful while information is not meaningful.
   B. data are raw facts and figures while information is computed data.
   C. information is independent of data while data is dependent on information.
   D. information is the raw material while data is the end product of information.

4. The following options are examples of information **except**
   A. area of a circle.
   B. circumference of a circle.
   C. perimeter of a rectangle.
   D. plain shape of a rectangle.

5. Modern computers compared to earlier computers are
   A. less reliable.
   B. faster and larger.
   C. larger and stronger.
   D. faster and smaller.

6. What type of computer would be **most** suitable for a student who lives in a remote village without constant electricity?
   A. Desktop computer
   B. Laptop computer
   C. Mainframe computer
   D. Mini computer

7. *EDSAC* was produced using a concept known as
   A. Circuit switching.
   B. Packet routing.
   C. Packet switching.
   D. Stored program.

8. The process of running more than one program concurrently is known as
   A. multithreading.
   B. multitasking.
   C. multiprogramming.
   D. multipurpose.

9. How many binary digits are contained in **10** *MB* of a memory stick?
   A. 10 × 1024
   B. 10 × 1024 × 8
   C. 10 × 1024 × 1024
   D. 10 × 1024 × 1024 × 8

10. A student would require the following devices to fill an online application form **except**
    A. keyboard.
    B. mouse.
    C. printer.
    D. webcam.

Use **Figure 1** *to answer questions* **11** *and* **12**.

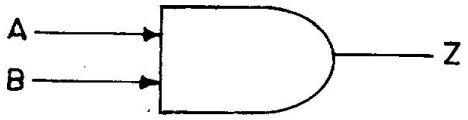

Figure 1

11. The logic gate in **Figure 1** is called
    A. AND gate.
    B. NAND gate.
    C. NOR gate.
    D. OR gate.

12. The logic equation for the logic gate in **Figure 1** is
    A. $Z = A + B$.
    B. $Z = A.B$.
    C. $Z = \overline{A + B}$.
    D. $Z = \overline{A.B}$.

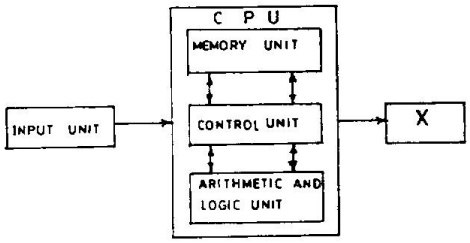

Figure 2

13. The part labelled **X** in **Figure 2** is called
    A. auxiliary memory.
    B. output unit.
    C. secondary memory.
    D. storage unit.

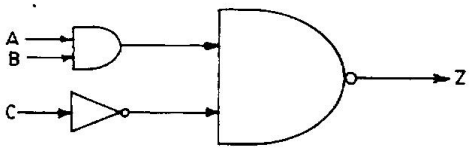

Figure 3

14. The logic equation for the logic circuit in **Figure 3** is
    A. $Z = \overline{A + B} + C$.
    B. $Z = \overline{A.B} + C$.
    C. $Z = A + B + \overline{C}$.
    D. $Z = A.B.\overline{C}$.

15. The program that is loaded into a special area on a microprocessor or *ROM* on a one-time basis and becomes part of the hardware is called
A. firmware.
B. liveware.
C. software.
D. utility.

16. The following programs are general purpose application software **except**
A. CorelDraw.
B. Payroll system.
C. *MS* Access.
D. *MS* Word.

17. One similarity between bespoke software and application packages is that they are
A. both available off the shelf.
B. highly standardized.
C. both written by computer users.
D. meant to be used by computer end-users.

18. One function of operating system is
A. power supply allocation.
B. file corruption and deletion.
C. hardware upgrade.
D. resource allocation.

19. The process of testing the logic of algorithm to ensure they give correct result is known as
A. debugging.
B. desk checking.
C. flowcharting.
D. pseudo-coding.

20. The following instructions are guidelines for drawing flowcharts **except** that
A. flowcharts must have a logical start and finish.
B. it should follow a direction of left to right or top to bottom.
C. it should follow a direction of right to left or bottom to top.
D. it should be clear, neat and easy to follow.

21. Key skills of a system analyst include the following **except**
A. ability to troubleshoot.
B. interest in learning new skills.
C. motivational skills.
D. proficiency in programming languages.

22. The result of the expression 2*6 + 2/4*2*4^2 is
A. 21.
B. 27.
C. 28.
D. 29.

Use the QBASIC program below to answer question **23**.

```
10 REM Program to calculate product of
   numbers.
20 CLS
30 INPUT A
40 INPUT B
50 LET PRODUCT = A * B
60 PRINT PRODUCT
70 END
```

23. The numbers 10, 20, 30, 40, 50, 60 and 70 as stated in the program indicate
A. bullet numbering.
B. codes.
C. labels.
D. line numbers.

24. The QBASIC statement *LET X = Y* − **3** means
A. the variables *X* and *Y* both receive the value 3.
B. the variable *X* receives the value **3**.
C. the variable *X* receives the value of *Y* less **3**.
D. an error message has occurred due to type mismatch.

Figure 4

25. The part labelled **Y** in the compiler interface in **Figure 4** represents

A. intermediate code.
B. binary code.
C. object code.
D. pseudo code.

26. The virtual communication platform where many people keep in contact with family and friends is known as

A. Microsoft Visio.
B. social engineering.
C. cyberspace.
D. virtual reality.

27. The protocol used for email transmission is known as

A. *HTTPS*.
B. *DHCP*.
C. *IP*.
D. *SMTP*.

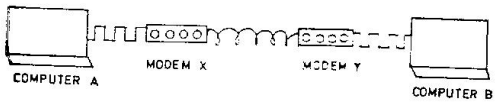

Figure 5

28. The signals from computer **A** to modem **X** in **Figure 5** are

A. analogue.
B. digital.
C. electrons.
D. protons.

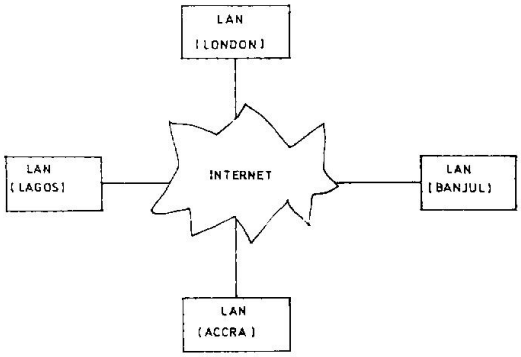

Figure 6

29. What type of network is represented in **Figure 6**?

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

30. In the *URL* https://www.waec.org.ng, the domain name is

A. waec.org.ng.
B. https://www.
C. //www.waec.
D. .org.ng.

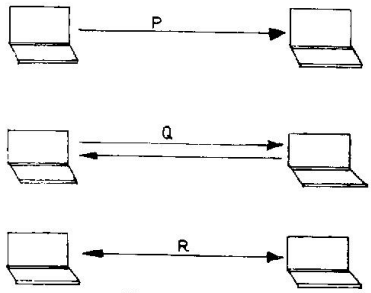

Figure 7

31. The type of transmission in the part labelled **Q** in **Figure 7** is called

A. broadcast.
B. full duplex.
C. half duplex.
D. simplex.

32. The maximum length of a text field in *MS* Access is
A. 75.
B. 120.
C. 255.
D. 265.

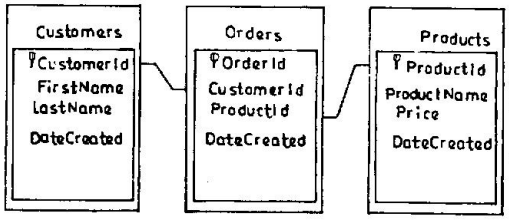

Figure 8

33. The number of entries in **Figure 8** is
A. 3.
B. 4.
C. 5.
D. 12.

34. The shortcut key for the *Open dialog box* in *MS* Word is
A. Alt + F12.
B. Ctrl + F12.
C. F12.
D. Shift + F12.

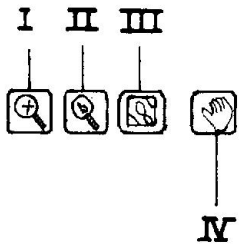

Figure 9

35 The part of the CorelDraw window labelled **II** in **Figure 9** is called
A. Pan.
B. Zoom In.
C. Zoom Out.
D. Zoom to fit.

36. Which of the following operations will **not** run a slide show in *MS* PowerPoint?
A. Pressing F5
B. Pressing Shift – F5
C. Choosing the slide show tab
D. Clicking the slide show icon on the taskbar

37. What will be the result of writing the formula =Year(now()) – 3 in a worksheet of a spreadsheet, if the current calendar date is 14 August, 1960?
A. 17 August, 1960 03.00
B. 14 August, 1963
C. 11 August, 1963
D. 1963

38. If A is in cell A1 and B is in cell B1 of a worksheet in a spreadsheet application, write a formula to calculate $X = \frac{A^2 + B^{1/2}}{100}$.
A. ((A1^2) + (B1^(1/2)))/100
B. ((A1^2 + (B1^(1/2)))/100
C. ((A1^2 + (B1^(1/2))/100
D. ((A1^2 + (B1^1/2)))/100

39. The pictorial representation of an object or application in the computer is called
A. diagram.
B. graphic.
C. icon.
D. image.

40. Deleted items in the computer are temporarily stored in the
A. memory unit.
B. processor.
C. recycle bin.
D. task manager.

41. The keyboard key combination ALT + F4 in Microsoft Windows will
A. close active programmes.
B. open a file.
C. restart the computer.
D. save all active files.

42. Select **two** stages of booting from the following list:
    I. Power on Self Test;
    II. Loading of Operating System;
    III. Loading of e-mails;
    IV. Start in safe mode.

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

43. In number system, base 16 is called
    A. hexadecimal.
    B. decimal.
    C. duodecimal.
    D. octal.

44. Add 127_{16} to $50A_{16}$.
    A. 629_{16}
    B. 630_{16}
    C. 631_{16}
    D. 632_{16}

45. The octal fraction 0.65 converts to binary as
    A. 0.110011.
    B. 0.110101.
    C. 101101.
    D. 101110.

46. Sequential files are
    A. sorted using index.
    B. sorted in a particular order.
    C. stored as they come.
    D. stored in any storage media.

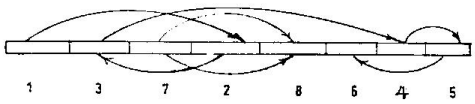

Figure 10

47. The file access method illustrated in **Figure 10** is called
    A. hashed access.
    B. indexed access.
    C. random access.
    D. sequential access.

48. Serial files are
    A. sorted using a key.
    B. sorted in a particular order.
    C. stored as they come.
    D. stored in any storage media.

49. Duplicating copyrighted electronic or digital content without the author's approval is considered
    A. felonious.
    B. ethical.
    C. treasonable.
    D. unethical.

50. Ethical practice requires a computer user to
    A. shutdown properly after using the computer.
    B. hack into other people's computer.
    C. intrude into people's privacy.
    D. copy software without the license.