GENERAL CERTIFICATE OF EDUCATION BOARD
General Certificate of Education Examination

0595 COMPUTER SCIENCE 1

JUNE 2023

ORDINARY LEVEL

Centre Number	
Centre Name	
Candidate Identification Number	
Candidate Name	

Mobile phones are NOT allowed in the examination room.

MULTIPLE CHOICE QUESTION PAPER

One and a half hours

INSTRUCTIONS TO CANDIDATES

Read the following instructions carefully before you start answering the questions in this paper. Make sure you have a soft HB pencil and an eraser for this examination.

1. USE A SOFT HB PENCIL THROUGHOUT THE EXAMINATION.
2. DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

Before the examination begins:

3. **Check that this question booklet is headed "ORDINARY LEVEL – 0595 COMPUTER SCIENCE 1"**
4. Fill in the information required in the spaces above.
5. Fill in the information required in the spaces provided on the answer sheet using your HB pencil:
   Candidate Name, Exam Session, Subject Code and Candidate Identification Number.
   Take care that you do not crease or fold the answer sheet or make any marks on it other than those asked for in these instructions.

How to answer the questions in this examination

6. Answer **ALL** the **50** questions in this Examination. All questions carry equal marks.
7. Non-programmable Calculators are allowed.
8. Each question has FOUR suggested answers: **A, B, C** and **D**. Decide which answer is appropriate. Find the number of the question on the Answer Sheet and draw a horizontal line across the letter to join the square brackets for the answer you have chosen.
   For example, if **C** is your correct answer, mark **C** as shown below:

   [A] [B] [C] [D]

9. Mark only one answer for each question. If you mark more than one answer, you will score a zero for that question. If you change your mind about an answer, erase the first mark carefully, then mark your new answer.
10. Avoid spending too much time on any one question. If you find a question difficult, move on to the next question. You can come back to this question later.
11. Do all your rough work in this booklet using the blank spaces in the question booklet.
12. **At the end of the examination, the invigilator shall collect the answer sheet first and then the question booklet. DO NOT ATTEMPT TO LEAVE THE EXAMINATION HALL WITH IT.**

Turn Over

1. A significant feature of social network is:
   A. Very fast response time with or without internet
   B. Causes many users to be lazy
   C. Used only for official issues
   D. Can link up multiple users at the same time

2. The use of advanced software to imitate the operation of a physical system is referred to as:
   A. Simulation
   B. Modelling
   C. Monitoring
   D. Controlling

3. A graphical network model used to depict the interdependencies between a project's tasks is called:
   A. Gantt chart
   B. Work chart
   C. Pert chart
   D. Slack chart

4. The decimal equivalent of the hexadecimal number 2A is:
   A. 10
   B. 210
   C. 42
   D. 20

5. Pentium I, Pentium II, Pentium III are examples of:
   A. Desktops
   B. Processors
   C. Laptops
   D. Printers

6. The components of an Information System includes:
   A. People, Software/Hardware, communication standard
   B. People, Procedure, Software/hardware, Communication
   C. Procedure, Software/Hardware, communication standard
   D. People, Procedure, standard, communication

7. The temperature of a patient at the emergency unit of a hospital is being checked by a system to signal a nurse on duty. This is an example of a:
   A. Control system
   B. Monitoring system
   C. Computerised system
   D. Simulation system

8. The equivalent of 10 seconds in milliseconds is:
   A. 10^{-2}
   B. 10^{-3}
   C. 10^{3}
   D. 10^{4}

9. The number of bytes in the acronym **E-COMMERCE** in system that uses 8 bits to encode a character is:
   A. 10
   B. 9
   C. 8
   D. 80

10. $110110_2 - 100011_2 = ?$
    A. 10010_2
    B. 11011_2
    C. 10011_2
    D. 11110_2

11. The main technology used in second generation of computers is:
    A. Microprocessor
    B. Transistors
    C. Integrated circuit
    D. Vacuum tubes

12. The statement "**RAM is volatile**" means:
    A. Content evaporates when exposed to air
    B. Content is not lost when system is switched off
    C. Content is lost when system is switched off
    D. Content can be modified when exposed to air

13. A device that converts a hard copy document to a soft copy is:
    A. Printer
    B. Monitor
    C. Scanner
    D. Photocopier

14. The component of a computer that stores instructions needed for the Power on Self-Test (POST) process is:
    A. RAM
    B. ROM
    C. Register
    D. Cache

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15. The following truth table represents a ____ gate

Input		output
A	B	X
0	0	1
0	1	1
1	0	1
1	1	0

   A   AND
B   OR
C   NOR
D   NAND

16. Akoh has a desktop computer in his office and wants to connect it to the company's network. What component in the desktop computer will facilitate this process?
   A   Modem
B   Hub
C   Switch
D   NIC

17. The network type established between two communication devices using Bluetooth technology is called;
   A   LAN
B   PAN
C   MAN
D   WAN

18. A sequence of characters that proves the identity of a user is:
   A   Password
B   User name
C   Plain text
D   Cipher text

19. The process of converting readable data into unreadable form in order to prevent unauthorised use;
   A   Decryption
B   Encryption
C   Password
D   Copyright

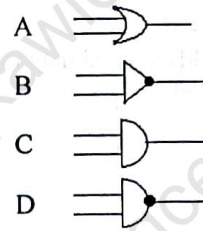20. Which of the following is a valid e-mail address?
   A   csc0595@com.gmail
B   gmail.com@csc0595
C   csc0595@gmail.com
D   csc0595.com@gmail

21. Which one of the following is an abbreviation for a computer network protocol?
   A   ISP
B   TCP
C   ADSL
D   ISDM

22. Which one of the following is an AND gate

23. A school Information System should be changed if:
   A   Students perform poorly at the last GCE O/L
B   A student's average is wrongly calculated
C   A new software has been released in the market
D   Admission form can be downloaded from the school's website

24. A transmission medium that transmits signals as light impulses is
   A   Coaxial cable
B   Twisted pair cable
C   Fiber-optic cable
D   Microwave

25. Sequence, Selection, Iteration in algorithm development are examples of:
   A   Monitoring structure
B   Abstract structure
C   Control structure
D   Data structure

26. Mr. Mbah works remotely at home from his computer connected to a server at work. This is an example of;
   A   Telecommuting
B   Social networking
C   Teleconferencing
D   Inter-Networking

27. The octal equivalent of 11101_2
   A   35
B   71
C   25
D   37

Turn Over

28. Which of the following files represents an audio file type?
    A   Audio.npg
    B   Audio.pdf
    C   Audio.wav
    D   Audio.bat

29. The variable that holds several data items of the same type is called:
    A   Names
    B   Characters
    C   Array
    D   String

30. An organised collection of related records is referred to as:
    A   Database
    B   File
    C   Folder
    D   Directory

31. The automated identification of a person by his/her individual body characteristics is referred to as:
    A   Optical recognition
    B   Scanning
    C   Biometrics
    D   Controlling

32. Which of the mark-ups below creates a paragraph in HTML?
    A   <pr> Form 5</pr>
    B   <p> Form5</p>
    C   <h1> Form5</h1>
    D
 Form5</br>

33. A user interface in which the user interacts with the computer by typing instructions is referred to as:
    A   Menu- driven interface
    B   Command line interface
    C   Command user interface
    D   Graphical user interface

34. The measure taken to protect computers and computer resources from accidental or intentional harm:
    A   Computer security
    B   Computer crime
    C   Computer ethics
    D   Computer forensic

35. The illegal copying, distribution or use of computer software
    A   Software hacking
    B   Software piracy
    C   Software cracking
    D   Software scamming

36. The integrated set of components interacting to achieve a common goal is called:
    A   Database
    B   System
    C   Process
    D   chart

37. In SDLC, the final implementation activity is to change from the old system to the new system using a conversion method. Which conversion method consists of running the old system alongside the new system for a specified period of time?
    A   Phase conversion
    B   Pilot conversion
    C   Direct conversion
    D   Parallel conversion

38. The amount of time that a task can be extended or delayed before it has an effect on the start time of another task is referred to as:
    A   Slack time
    B   Critical time
    C   Lag time
    D   Slag time

Using the algorithm below, answer questions 39 and 40.
    1. Begin
    2. Get price A
    3. Get quantity of item N
    4. If N<10
    5.   Total=A*N
    6. Else
    7.   Total=(A*N)-500
    8. Print Total
    9. End

39. What programming construct is used in Line 4 of the Algorithm?
    A   Sequence
    B   Decision
    C   Recursion
    D   Iteration

40. What flow charting symbol can be used in Line 2?

    A

    B

    C

    D

41. A transmission channel in which signals are transmitted in both direction but not at the same time is known as:
   A Simplex
   B Full Duplex
   C Half Duplex
   D Synchronous

42. Which one of the following statements is true about SMS and MMS?
   A SMS is text only while MMS is video only
   B SMS is audio only while MMS is audio and video
   C SMS is text only while MMS is text and audio visual
   D SMS is text only while MMS is audio visual

43. Advertising and trading over the internet is often referred to as:
   A E- Trading
   B E- Commerce
   C E- Advert
   D E- Marketing

44. A security measure to unmask information for authorised persons is:
   A Password
   B Encryption
   C Decryption
   D Back up

45. The process in which a computer checks its resources and then loads the operating system into the main memory is referred to as:
   A Uploading
   B Downloading
   C Booting
   D Updating

46. Software designed to enable a user carry out everyday tasks is referred to as:
   A System software
   B Operation software
   C Application software
   D Utility software

47. Ambe sends a file to Ngwa over a computer network. Awah intercepts the file and modifies it before it reaches Ngwa. Awah can be described as a:
   A Scammer
   B Spy
   C Hacker
   D Spammer

48. A program that translates a source code line by line while executing each instruction is called a(n)
   A Compiler
   B Assembler
   C Interpreter
   D Translator

49. An algorithm presented in a graphical manner:
   A Pseudo code
   B Flow chart
   C Data structure
   D Control structure

50. The processor carries out operations on processes in a cycle called:
   A Life cycle
   B Project cycle
   C Machine cycle
   D Program cycle

STOP
GO BACK AND CHECK YOUR WORK