

GENERAL CERTIFICATE OF EDUCATION BOARD

General Certificate of Education Examination

0595 COMPUTER SCIENCE 1

JUNE 2022

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. Calculators ARE NOT 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 translation tool used to interpret code written in HTML is the:
- A Interpreter
  - B Compiler
  - C Browser
  - D Assembler
- 
2. The HTML tag that will generate a hyperlink is the:
- A <b> tag
  - B <a> tag
  - C <hr> tag
  - D <h l> tag
- 
3. Storing data/information on a hard disk is a(n) \_\_\_\_\_ activity.
- A Processing
  - B Output
  - C Input
  - D Input/output
- 
4. The data check for a field originally formatted to accept only a seven – digit number is:
- A Range check
  - B Presence check
  - C Length check
  - D Parity check
- 
5. One objective of normalization in a database is to:
- A Increase data redundancy
  - B Reduce the number of tables in the database
  - C Normalize a complex database
  - D Reduce data redundancy
- 
6. All \_\_\_\_\_ tasks must be completed within the specified time limit of a project:
- A Dangling
  - B Floating
  - C Critical
  - D Dummy
- 
7. Software that enables the operating system to communicate effectively with a piece of peripheral is called:
- A Disk defragmenter
  - B Device driver
  - C Device cleaner
  - D Software installer
- 
8. Essential instructions needed to start up a computer are stored in the:
- A CMOS
  - B RAM
  - C BIOS
  - D ROM
- 
9. Software efficiency deals with:
- A Optimal use of processor and memory
  - B Correct use of algorithmic constructs
  - C Clarity in presentation of lines of code
  - D Its ease of maintenance
- 
10. The acronym USB stands for:
- A Unit Serial Bus
  - B Universal Service Bus
  - C Universal Serial Bus
  - D Unit Service Bus
- 
11. A translated code written in a compiled language is called:
- A Source code
  - B object code
  - C Embedded code
  - D Executable code
- 
12. \_\_\_\_\_ is a word processor tool used to cut off unwanted portions of an image which can be regained when necessary.
- A Wrap
  - B Cute
  - C Crop
  - D Compressor
- 
13. One way to reduce cyber criminality is by:
- A Use of firewalls
  - B Implementing strong legislation
  - C Locking up sensitive equipment in a secure room
  - D Backup sensitive documents
- 
14. \_\_\_\_\_ is a code of good behavior on the web.
- A Web ethics
  - B Internet ethics
  - C Netiquette
  - D Network ethics
-

15. Communication between a computer system and a keyboard involves \_\_\_\_\_ transmission.
- Automatic data
  - Half duplex
  - Full duplex
  - Simplex
- 
16. Which one of the following data transmission media is fastest?
- Twisted pair cable
  - Coaxial cable
  - Optical fiber cable
  - Shielded twisted pair cable
- 
17. A network in which all the communicating devices have the same privileges is called:
- Peer-to-peer
  - Client-server network
  - Star network
  - Bus network
- 
18. A \_\_\_\_\_ is designed to boost weakened signals along a data pathway.
- Router
  - Repeater
  - Bridge
  - Stabilizer
- 
19. Evaluating the existing system with the objective of building a new system is the responsibility of the:
- System programmer
  - System analyst
  - System operator
  - System administrator
- 
20. \_\_\_\_\_ software DOES NOT display graphics/images.
- Text editor
  - Word processor
  - Desktop publisher
  - Presentation
- 
21. Which of the following is true about synchronous and asynchronous data transmission?
- Both require the use of a clock
  - Both are serial data transmission modes
  - Synchronous makes use of stop bit while asynchronous depends on clocks
  - Both make use of a start bit and a stop bit
- 
22. The number of 64MB flash disks needed to hold 1GB of data is:
- 2
  - 8
  - 16
  - 32
- 
23. The amount of time a task can be delayed without delaying the project is known as:
- Early start time
  - Late finish time
  - Critical time
  - Slack time
- 
24. The main technology that marked the 3<sup>rd</sup> generation of computer is:
- Transistors
  - Integrated circuits
  - Processors
  - Vacuum tubes
- 
25. One disadvantage of computer simulation is:
- Risk of findings being taken as real
  - Waste of time
  - Waste of material
  - Increase in cost of production
- 
26. Which one of the following is a correct spreadsheet absolute cell reference?
- = \$A\$2
  - = 2A
  - = &2&A
  - = \$2\$A
- 
27. \_\_\_\_\_ is an example of utility software.
- Spreadsheet
  - Antivirus
  - Device drivers
  - Operating system
- 
28. The feature of the spreadsheet that makes it suitable for what-if-analysis is:
- Automatic calculations
  - Grid layout
  - Graphics
  - Spell checkers

29. Which one of the following logic gates has only one input?
- XOR
  - NOT
  - NAND
  - NOR
- 
30. The logic expression  $\overline{(\overline{A} + B)}$  is equivalent to:
- $\overline{A} + B$
  - $A \cdot \overline{B}$
  - $\overline{A} + \overline{B}$
  - $\overline{A} \cdot \overline{B}$
- 
31. The result of the binary subtraction 1101-1010 is:
- 101
  - 11
  - 100
  - 10
- 
32. The hexadecimal number F6 in binary is:
- 11110110
  - 11111110
  - 11101110
  - 11100110
- 
33. How many symbols are there in the octal number systems?
- 6
  - 7
  - 8
  - 9
- 
34. The file extension .tiff is used to hold \_\_\_\_\_ files.
- Sound
  - Graphics
  - Videos
  - Text
- 
35. Which one of the following is true about the scope of the real and integer data types?
- Both data types can be used for fields with any decimal values
  - Both data types can be used only for fields with whole number values
  - Real data types can be used for fields with character data types but not integer types
  - Both data types are structured data types
- 
36. The acronym FAT in relation to disk formatting stands for:
- File Attribute Table
  - File Allocation Table
  - File Access Table
  - File Assignment Table
- 
37. The computer system bus consists of:
- Control, data and register buses
  - Control, data and address buses
  - Data, register and RAM buses
  - Control, address and RAM buses
- 
38. Data encryption entails converting:
- Plain text to decrypted text
  - Plain text to cipher text
  - Plain text to plain text
  - Decrypted text to plain text
- 
39. The sharpness of an image on a computer screen is measured in
- Pixels per dot
  - Dots per inch
  - Dots per square inch
  - Pixels per inch
- 
40. In the machine cycle, the decoding of fetched data is done by the:
- ALU
  - Cache memory
  - Accumulator
  - Control unit

41. Which of the following is in the correct order of DECREASING time unit?
- A Microseconds, Nanoseconds, Picoseconds
  - B Microseconds, Picoseconds, Nanoseconds
  - C Picoseconds, Nanoseconds, Microseconds
  - D Picoseconds, Microseconds, Nanoseconds
- 
42. Which one of the following memories has the fastest access rate?
- A Cache
  - B ROM
  - C RAM
  - D Hard disk
- 
43. The use of test data to manually determine the correctness of an algorithm is usually referred to as:
- A Code tracing
  - B Dry run
  - C Debugging
  - D Code verification
- 
44. CRT monitors stand for:
- A Central Random Transistor monitor
  - B Cathode Ray Tube Monitors
  - C Cathode Relay Tube Monitors
  - D Central Ray Transistor Monitor
- 
45. Which of the following is true about hardware devices and device drivers?
- A Both are hardware components
  - B Both are software components
  - C Drivers manage/control hard devices
  - D Hardware devices is hardware, device driver is software
- 
46. One of the reasons for increasing the size of RAM is:
- A Less virus gets into the computer
  - B More instructions and data are made available for CPU to work on
  - C Reduces rate of computer breakdown
  - D Increases processor speed
- 
47. \_\_\_\_\_ is a set of rules that govern data transmission over the Internet.
- A FTP
  - B IP
  - C HTTP
  - D TCP/IP
- 
48. A \_\_\_\_\_ converts information on paper into electronic form.
- A Joys stick
  - B Scanner
  - C Keyboard
  - D Camera
- 
49. An embedded processor is one designed to:
- A carry out specific tasks
  - B operate under a main processor
  - C hold partially processed data
  - D Embedded in the semiconductor
- 
50. \_\_\_\_\_ deals with the design and arrangement of equipment at the work place to ensure safety and comfort.
- A Biometrics
  - B Ergonomics
  - C Stylistics
  - D diversities
- 

**GO BACK AND CHECK YOUR WORK**