

# GENERAL CERTIFICATE OF EDUCATION (GCE) BOARD

## General Certificate of Education Examination

0595 COMPUTER SCIENCE 1

JUNE 2021

ORDINARY LEVEL

Centre Name	
Candidate Identification Number	
Candidate Name	

**Mobile phones or calculators 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. Each question has FOUR suggested answers: A, B, C and D. Decide on which answer is correct. 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]

8. 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.
9. 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.
10. **Calculators are NOT allowed.**
11. Do all 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

June 2021/0595/1C/MCQ

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1. Which of the following software does not display graphics?  
 A Text editor  
 B Word processor  
 C Desktop publishers  
 D Presentation

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2. The correct arrangement in increasing order of time unit is:  
 A Nanoseconds, Picoseconds, Microseconds  
 B Microseconds, Picoseconds, Nanoseconds  
 C Nanoseconds, Microseconds, Picoseconds  
 D Picoseconds, Nanoseconds, Microseconds

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3. \_\_\_\_ deals with the design of equipment and the workplace to ensure safety and comfort.  
 A Biometrics  
 B Ergonomics  
 C Stylistics  
 D Modelling

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4. Having unauthorized access to a computer system and collecting sensitive data from it is called:  
 A Copy rights  
 B Bridging  
 C Plagiarism  
 D Cracking

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5. Which of the following has the fastest access speed?  
 A RAM  
 B Registers  
 C Hard drive  
 D CD/DVD

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6. The file extension .avi holds what type of files?  
 A Sound  
 B Graphic  
 C Video  
 D Text

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7. One application of infrared signals is in \_\_\_\_  
 A Bluetooth  
 B Traffic lights  
 C Remote controller  
 D Wireless networks

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8. The health concern RSI stands for?  
 A Repeated Strain Injury  
 B Repetitive Stress Injury  
 C Repetitive Strain Injury  
 D Repeated Strain Injury

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9. What characteristic of RAM makes it not suitable for permanent storage?  
 A It is slow  
 B It is volatile  
 C It is the main memory  
 D It is often in use by the CPU

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10. When a computer is switch on, the operating system is loaded in a process called  
 A Compiling  
 B Formatting  
 C Booting  
 D Debugging

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11. The main use of defragmentation utility program is to  
 A Reduce data access  
 B Increase the free disk space  
 C Delete any unused data and files  
 D Detect and eliminate viruses

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12. Software is said to be user friendly if:  
 A It is easy to use and make friends  
 B It is easy to learn and use  
 C The user can use it for other things  
 D It contains mainly pictures

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13. The result of the binary operation 1101-1010 is:  
 A 101  
 B 011  
 C 100  
 D 010

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
14. An application software designed to perform a wide range of tasks and can be used by a variety of users is known as;  
 A Specialized software  
 B Bespoke software  
 C Integrated software  
 D Generic software

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15. A data type in which data items can only have one of two possible values is a(n)  
 A Record  
 B String  
 C Array  
 D Boolean

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16. A communication mode where data is transmitted in one direction at a time is referred to as:
- Simplex
  - Duplex
  - Half duplex
  - Half simplex
17. A collection of rules for the transmission of signals across networks is referred to as:
- Topologies
  - Protocol
  - Hypertext
  - Procedure
18. Input, processing, output and storage are collectively referred to as the:
- System unit cycle
  - System operation cycle
  - Communication link cycle
  - Information processing cycle
19. Which of the following is NOT a database?
- An address book
  - A telephone directory
  - A class list of form 5 students
  - A list of 3 names.
20. Which of the following means the same thing as a row of data in a relation or table in a database is?
- Tuple
  - Attribute
  - Field
  - File
21. What name is given to a column in a relation or table in a database?
- Tuple
  - Attribute
  - Entity
  - File
22. The use of the computers to create, store, revise and produce text is known as:
- Tele processing
  - Voice processing
  - Word processing
  - Data processing
23. A device capable of converting analog signal to digital signal and vice versa:
- Multiplexers
  - Demultiplexers
  - Modem
  - Coaxial cable
24. A company network that allows only controlled access from the outside and for specific purposes is called
- Internet
  - Intranet
  - Extranet
  - Firewall
25. A logic gate whose functionality is the reverse of an OR gate is:
- OR
  - XOR
  - NOR
  - AND
26. How many combinations of input values in a two- input OR gate result in an output of 1?
- 3
  - 1
  - 4
  - 8
27. The binary equivalent of the decimal 133 is
- 10000101
  - 11000101
  - 10011001
  - 11100101
28. In a flow chart, the symbol below represents:
- 
- Decision
  - A process
  - An output
  - A stop
29. A printer whose printing mechanism involves pressing the characters against an inked ribbon on to a paper is:
- Non-impact printer
  - Impact printer
  - Inkjet printer
  - Laser Printer
30. \_\_\_\_\_ is a transmission mode in which data is transmitted one bit at a time.
- Parallel transmission
  - Serial transmission
  - Duplex transmission
  - Half duplex transmission

Turn Over

31. Which of the following network topologies uses a token?
- Mesh topology
  - Bus topology
  - Star topology
  - Ring topology
- 
32. A network hardware device that connects two dissimilar networks is a:
- Modem
  - Hub
  - Router
  - Bridge
- 
33. Computers in offices in the school administrative block are connected so they can share resources. What type of network is most likely used?
- PAN
  - WAN
  - LAN
  - MAN
- 
34. A hard disk is divided into tracks which are further divided into:
- Clusters
  - Sectors
  - Heads
  - Sub tracks
- 
35. The performance of a computer system is affected by all except:
- The clock speed
  - The RAM size
  - The hard disk size
  - Its power rating
- 
- Question 36 to 38 are based on the following algorithm:
- ```

1. Start
2. Input x
3. If (x mod 2 = 0) then
  3.1 Set y to x
  3.2 Set counter to 1
  3.3 While counter <= 3 do
    Set y to y+2
    Increment counter by 1
  Endwhile
  3.4 print y
Else
  3.5 print x
Endif
4. Stop

```
36. In what form has the algorithm been represented?
- Flowchart
  - Pseudo code
  - Source code
  - Machine code
- 
37. What construct is used in line 3.3?
- Looping
  - Selection
  - Sequence
  - Branch
- 
38. What value of y is printed when x is 4?
- 4
  - 6
  - 8
  - 10
- 
39. The input to a compiler is known as:
- Source code
  - Object code
  - Instruction code
  - Program code
- 
40. A communication medium in which messages are transmitted as light pulses.
- Coaxial cable
  - Twisted pair
  - Optic fibre
  - System bus
- 
41. \_\_\_\_\_ enables a wireless network to be connected to a wired network.
- Hub
  - Switch
  - Access point
  - Network interface card
- 
42. A barcode reader is an example of \_\_\_\_\_ input technology:
- OCR
  - OMR
  - MICR
  - Biometric
- 
43. Uploading and downloading data to or from a remote computer is done using?
- File transfer protocol
  - Inter relay chat
  - Download manager
  - Data transmission
- 
44. A technique of developing a miniature of a system with all functional components is called:
- Systems Development life cycle
  - Stepwise refinement
  - Modeling
  - Prototyping

45. In a PERT chart, tasks are represented using:  
A Nodes  
B Numbers  
C Letters  
D Arrows
- 
46. A task that must be completed before another task can begin is called a:  
A Dummy task  
B Milestone task  
C Predecessor task  
D Critical task
- 
47. Which of these software is suitable for storing, retrieving and manipulating very large quantities of data?  
A Spreadsheet  
B Database Management System  
C Decision Support System  
D General Purpose software
- 
48. On typing a document, instead of typing 456 the typist types 457. What kind of error is this?  
A Transposition error  
B Range check error  
C Data type error  
D Transcription error
- 
49. Digital signals are stepwise and discrete while analog signals are:  
A Square and continuous  
B Stepwise and synchronous  
C Smooth and continuous  
D Discrete and continuous
- 
50. In computer programming, what is a semantic error?  
A An error that occurs in the execution of a program  
B A compilation mistake  
C A mistake due to use of the wrong instruction  
D A mistake due to an instruction not having the right form
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**STOP**

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**GO BACK AND CHECK YOUR WORK**

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