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MARCH 2024

The Teachers' Resource Unit and the Regional Inspectorate of Pedagogy, in collaboration with NASTA	SUBJECT CODE NUMBER 0595	PAPER NUMBER 1
GENERAL CERTIFICATE OF EDUCATION AND INTERMEDIATE TECHNICAL AND VOCATIONAL EDUCATION REGIONAL MOCK EXAMINATION	SUBJECT TITLE COMPUTER SCIENCE	
CANDIDATE NAME:		
CANDIDATE NUMBER:		
CENTRE NUMBER:	ORDINARY LEVEL	

Time Allowed: One and a half hours
INSTRUCTIONS TO CANDIDATES:

Mobile phones are **NOT ALLOWED** in the examination room.

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

Before the Examination begins:

- Check that this question booklet is headed "Ordinary level -0595 code and subject title—Computer Science -Paper 1".
- Insert the information required in the spaces above.
- Without opening the booklet, pull out the answer sheet carefully from inside the front cover of this booklet. 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.
- Insert the information required in the spaces provided on the answer sheet using your HB pencil:

Candidate Name, Centre Number, Candidate Number, Subject Code Number, and Paper number

How to answer questions in this examination:

- Answer **ALL** the 50 questions in this examination. All questions carry equal marks.
- Non-programmable calculators are allowed
- For each question there are four suggested answers, A, B, C and D. Decide 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]
- Mark only one answer for each question. If you mark more than one answer, you will score zero for that question. If you change your mind about an answer, erase the first mark carefully, and then mark your new answer.
- Avoid spending much time on any question. If you find a question difficult, move to the next. You can come back to the question later.
- Do all rough work in this booklet using, where necessary, the blank spaces in the question booklet.
- You must not take this booklet and answer sheet out of the examination room. All question booklets and answer sheets will be collected at the end of the examination.



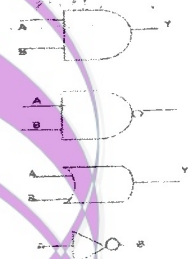
- An example of a manual data captured method.
 - OMR
 - Questionnaire
 - OCR
 - Barcode reader
- Data is entered into the computer using the following format: MM-DD-YYYY. What validation check can be used in the above format?
 - Range check
 - Length check
 - Format check
 - Presence check

Given the truth table below, use it to answer question 3 and 4

A	B	Y
0	0	1
0	1	1
1	0	1
1	1	0

- The truth table above represents that of?
 - AND
 - OR
 - NAND
 - XOR
- What logic expression can represent the above truth table?
 - $Y = A + B$
 - $Y = A(A \cdot B)$
 - $Y = (A \cdot B)'$
 - $Y = A' \cdot B'$
- A measure of the accuracy and consistency of data.
 - Validation
 - integrity
 - verification
 - confidentiality
- A temporal endeavour taken to accomplish a specific objective,
 - Scope
 - Project
 - Project management
 - Algorithm
- A system that processes data in specified groups, is an example of?
 - Real time processing system
 - Online processing system
 - Batch processing system
 - Automatic processing system
- An important component of an expert system.
 - Mouse
 - Keyboard
 - knowledge base
 - Monitor
- Complete description of a system either from the user's point of view or technical point of view occur at what stage of the SDLC?
 - Documentation
 - Analysis
 - Design
 - Implementation

- Policies, methods used in operating an information system are called?
 - Software
 - Procedure
 - Information
 - People
- The binary equivalent of the octal number 32.
 - 011010
 - 101101
 - 100010
 - 111100
- Sequence of dependent tasks in a project that takes the longest time to complete the project is called?
 - Gantt chart
 - Critical task
 - Critical path
 - PERT chart
- Which of the following represents the order of the symbols below?



- AND, NOR, OR, NAND
 - OR, NOR, NAND, XOR
 - AND, NAND, OR, NOT
 - NOT, OR, NOR, XOR
- How many bits are there in 8 bytes
 - 32
 - 44
 - 16
 - 64
 - Which of the following is the fastest transmission media?
 - Coaxial
 - Twisted pair
 - Shielded twisted pair
 - Optic fibre
 - Rules that govern the writing of a program statement in a certain programming language is called?
 - Procedure
 - Syntax
 - Logic
 - Semantics
 - The main technology in the first, Second and Third generations of computers.
 - Transistors, Vacuum tubes, Integrated Circuit
 - Vacuum tube, Transistors, Integrated Circuit
 - Integrated Circuit, Transistors, Vacuum tubes
 - Integrated Circuit, Vacuum tubes, Transistors



18. A system design to manage the software and hardware resources of a computer system.

- A. Device drivers
- B. Operating System
- C. Task Manager
- D. Utility Program

19. A field that uniquely identifies a record in a database.

- A. Composite key
- B. Foreign key
- C. Primary key
- D. Identifier key

Question 20 and 21 are based on the following table.

Code	Name	Gender	Salary
101	Mercy	F	25000
102	Ngum	F	50000
103	Yoka	M	15000

20. How many fields and records are found on the table?

- A. 4 record, 3 fields
- B. 4 record, 4 fields
- C. 3 record, 4 fields
- D. 3 record, 3 fields

21. Which field can be best used as the primary key?

- A. Name
- B. Code
- C. Name and Code
- D. Salary

22. De Morgan's law for the logic statement $\overline{A \div B}$

- A. $\overline{A} \div \overline{B}$
- B. $\overline{A} + \overline{B}$
- C. $\overline{A} + \overline{B}$
- D. $\overline{A} + \overline{B}$

23. The decimal equivalent of the binary number 110011.

- A. 51
- B. 34
- C. 50
- D. 41

24. During data transmission, data can travel either in one direction or in both directions simultaneously. These modes of transmission are respectively called?

- A. Full duplex and half duplex
- B. Half duplex and simplex
- C. Simplex and full duplex
- D. Half duplex and full duplex

25. The network component that boosts the strength of signals as they travel over long distances is called?

- A. Modem
- B. Bridge
- C. Repeater
- D. Fire wall

26. A program that enables programmers to correct programming errors

- A. Compiler
- B. Interpreter
- C. Linker
- D. Debugger

27. The diamond shape used in a flow chart, represents what type of instructions in algorithm?

- A. Calculation
- B. Input/output
- C. Conditional
- D. Processing

28. Which of the following is NOT the function of an Operating System?

- A. Resource management
- B. Task management
- C. Provide Security
- D. Store Information

29. Control structures in which a blocks of instructions are executed again and again until a certain condition is fulfilled.

- A. Loop
- B. Selection
- C. Sequence
- D. Branch

30. The best software suitable to compute data that requires graphs.

- A. Presentation
- B. Spreadsheet
- C. Entertainment
- D. Desktop Publisher

31. Which pair of HTML tag below is used to underline a text?

- A. `<u>` and `</u>`
- B. `<o>` and `</o>`
- C. `<underline>` and `</underline>`
- D. `<Li>` and `</Li>`

32. Another name for the main memory of a computer system.

- A. working memory
- B. hard drive
- C. ROM
- D. Flash drive

33. Which of the following items below appears odd in the list below?

- A. Linux
- B. Unix
- C. Android
- D. Microsoft word.

34. A software that enables users to read web document is called?

- A. Browser
- B. Facebook
- C. Operating system
- D. Search engine.

35. Which of the following extension can be used for a Picture File Format?

- A. .html
- B. .pdf
- C. .jpeg
- D. .txt.



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36. The HTML tag `<OL>` `</OL>` will generate?
 A. Underline List
 B. Bulleted List
 C. Numbered List
 D. Odd number.

37. A computer hardware that produces hard copy output.
 A. Speakers
 B. Monitors
 C. Printers
 D. Microphone

38. The machine processing cycle involves the following stages.
 A. Fetch, execute, decode
 B. Fetch, decode, execute
 C. Storage, fetch, execute
 D. Execute, fetch, storage

39. Good software should be user friendly. This means that;
 A. It can make friends with the computer user
 B. Can be easily manipulated or used by computer user
 C. Can connect many friends together
 D. All of the above

40. Part of the CPU that can locate and retrieve program instructions from memory is called _____.
 A. ALU
 B. Register
 C. CU
 D. RAM

41. The flash storage devices use which type of storage technology?
 A. Magnetic
 B. Optical
 C. Solid state
 D. Simple

42. The Webcam is an example of _____.
 A. Input device
 B. Storage device
 C. Output
 D. Processing

43. Some storage devices are called primary storage devices. Which of the following is NOT a primary storage device
 A. Registers
 B. Hard drive
 C. RAM
 D. Cache memory

44. Given that the data to be entered into a system must be alphabet and/or numeric, and must be five characters in length. Which of the data below will be validated?
 A. Mercy
 B. love
 C. 1993
 D. Comp205

45. Which of the following is correct in Boolean logic?
 A. $1 \text{ AND } 1 = 0$
 B. $1 \text{ AND } 0 = 1$
 C. $0 \text{ OR } 1 = 1$
 D. $1 \text{ OR } 0 = 0$

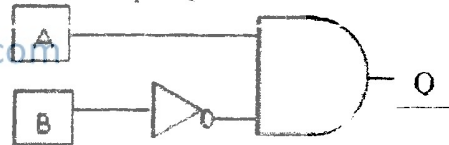
46. An example of a social media platform.
 A. Database
 B. Facebook
 C. Search engine
 D. Internet

47. Data type which has only two possible values
 A. Integer
 B. Boolean
 C. Text
 D. Char

48. Choose from the list below what takes place during the booting process
 A. The operating system and Microsoft word is loaded into the RAM
 B. The application program is loaded into the RAM
 C. The Operating System is loaded into the RAM
 D. The hardware drivers are loaded into the RAM

49. Software that allows interaction between the OS and the hardware device is called?
 A. Task Manager
 B. Device Drivers
 C. Compiler
 D. Disk Cleaner.

50. The output Q in the circuit below is equal to:



A. $A \cdot B$
 B. $\bar{A} + B$
 C. $A \cdot \bar{B}$
 D. $\bar{B} + A$

END

GO BACK AND CHECK YOUR WORK

