# SOUTH WEST REGIONAL MOCK EXAMINATION
## GENERAL EDUCATION

| The Teachers' Resource Unit (TRU) in collaboration with the Regional Pedagogic Inspectorates and the Subject Teachers' Association (STA) | Subject Code 0595 | Paper Number 1 |
|---|---|---|
| CANDIDATE NAME ............................................................. CANDIDATE NUMBER ............................................................. CENTRE NUMBER ............................................................. ORDINARY LEVEL | Subject Title **COMPUTER SCIENCE** | |
| | **DATE** 31/03/2022 (AFTERNOON) | |

**Time Allowed: One hour thirty minutes**

## INSTRUCTIONS TO CANDIDATES:

1. USE A SOFT HB PENCIL THROUGHOUT THIS 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, Paper 1".
4. Insert the information required in the spaces provided above.
5. 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.
6. 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:**

7. Answer ALL the 50 questions in this examination. All questions carry equal marks.
8. Non-programmable calculators are allowed.
9. 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:

$$[ A ] \quad [ B ] \quad [\!\rule{1em}{0.4pt}\!] \quad [ D ]$$

10. 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.
11. Avoid spending much time on any question. If you find a question difficult, move to the next question. You can come back to this question later.
12. Do all rough work in this booklet using, where necessary, the blank spaces in the question booklet.
13. Mobile phones are **NOT ALLOWED** in the examination room.
14. 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.

1. An example of an optical storage device is
   - A. RAM
   - B. Hard disk
   - C. DVD RW
   - D. Solid state drive

2. The key difference between 2nd and 1st generation of computers is that
   - A. Vacuum tubes replaced transistors
   - B. Vacuum tubes replaced integrated circuits
   - C. Transistors replaced vacuum tubes
   - D. Transistors replaced integrated circuits

3. Validation and verification checks in an SDLC are employed to ensure
   - A. Data security
   - B. Data integrity
   - C. Data protection
   - D. Data privacy

4. A malware that comes in the form of a good advert is called a
   - A. Virus
   - B. Worm
   - C. Logic bomb
   - D. Trojan horse

5. The processor speed is measured in
   - A. Hertz
   - B. Bits
   - C. Bytes
   - D. Seconds

6. Software used to solve user-specific problem is
   - A. Application software
   - B. Operating system
   - C. Utility software
   - D. Device drivers

7. The role of a file extension is to indicate the
   - A. Folder where the file can be located
   - B. Filename
   - C. Program used to open the folder
   - D. Encoding of data in the file

8. The computer component that controls the operations of a computer system is the
   - A. Main memory
   - B. Control button
   - C. Control unit
   - D. System unit

9. In a flow chart, the symbol [ ] is used for
   - A. Decision
   - B. Output
   - C. Process
   - D. Print

10. In which type of programming does the user defines what needs to be done and the system figures out how to do it?
    - A. Object oriented
    - B. Procedural
    - C. Declarative
    - D. Imperative

11. Which of the following is an ergonomic design concern?
    - A. RAM capacity
    - B. Hard disk capacity
    - C. Keyboard layout
    - D. CPU speed

12. Data from the daily activities of a supermarket are processed by a(n)
    - A. Transaction processing system
    - B. Office automation system
    - C. Decision support system
    - D. Expert support system

13. Hardware that are connected to the system unit by way of ports are generally called
    - A. Output devices
    - B. Input devices
    - C. Peripheral devices
    - D. System devices

14. The truth table shows an output R for inputs A and B. R represents the -------- gate.

    | A | B | R |
    |---|---|---|
    | 0 | 0 | 1 |
    | 0 | 1 | 1 |
    | 1 | 0 | 1 |
    | 1 | 1 | 0 |

    - A. OR
    - B. AND
    - C. NAND
    - D. NOR

15. Placing a file on a server computer using the internet is called
    - A. Downloading
    - B. Internet loading
    - C. Uploading
    - D. Upgrading

16. A guide on how signals are transmitted across networks is the
    - A. Logical topology
    - B. Protocol
    - C. Procedure
    - D. Physical topology

17. A software is said to be user friendly if
    - A. It can manipulate users easily
    - B. Users can manipulate it easily
    - C. It can be used to make friends
    - D. Friends can use it to contact others

18. Flow charts have an advantage over pseudocodes because
    A. They can easily be drawn
    B. They are closer to real programs
    C. They simplify the writing of programs
    D. Their symbols are universally accepted

19. Desktop computers are examples of
    A. Mini computers
    B. Micro computers
    C. Mainframe computers
    D. Embedded computers

20. In project management, the duration of a project is determined by the
    A. PERT chart
    B. Gantt chart
    C. Slack time
    D. Critical path

21. Prevention of flow of intrusive data across a network is achieved by the use of
    A. Password
    B. Antivirus
    C. Firewall
    D. Encryption

22. The physical medium with the highest bandwidth is the
    A. Coaxial cable
    B. Twisted pair cable
    C. Untwisted pair cable
    D. Optic fibre

23. Software that is made to solve the problem of a particular organization is called
    A. Dedicated software
    B. Tailor-made software
    C. Single purpose software
    D. Generic software

24. The abbreviation FTP stands for
    A. File transmission protocol
    B. File translation protocol
    C. File transfer protocol
    D. File transaction protocol

25. An unauthorized user gains access to a system by violating
    A. Confidentiality
    B. Piracy
    C. Identification
    D. Availability

26. The logic gate that inverts the input given is
    A. AND gate
    B. NOT gate
    C. OR gate
    D. XOR gate

27. A programming language that uses instructions in the form of binary codes is the
    A. Assembly language
    B. Machine language
    C. High level language
    D. Fourth generation language

28. The integer data type can accept
    A. Real numbers only
    B. Imaginary numbers only
    C. Rational numbers only
    D. Whole numbers only

29. An algorithm written in a programming language becomes a
    A. Flow chart
    B. Program
    C. Pseudocode
    D. Syntax

30. Readable characters are converted to unreadable characters in a process called
    A. Password
    B. Encryption
    C. Coding
    D. Decryption

31. The process of finding errors and fixing them within a program is termed
    A. Compiling
    B. Executing
    C. Debugging
    D. Scanning

32. Using a computer in a way that reduces electrical and environmental waste is referred to as
    A. Cloud computing
    B. Environmental computing
    C. Green computing
    D. Electrical computing

33. Which of the following file format corresponds to multimedia data?
    A. TXT
    B. MP3
    C. MP4
    D. JPEG

34. Which of the following does not constitute a computer crime?
    A. Software piracy
    B. Decryption
    C. Phishing
    D. Hacking

35. The memory location below with the smallest access speed is the
    A. RAM
    B. Flash disk
    C. Hard disk
    D. Register

36. The correct order of an SDLC is
    A. Planning, analysis, design, implementation, support
    B. Planning, design, analysis, implementation, support
    C. Planning, design, implementation, analysis, support
    D. Planning, analysis, implementation, design, support

37. The equivalence of the binary number 00111110 in the hexadecimal system is
    A. C3
    B. 21
    C. D4
    D. 3E

38. Which of the following devices uses hard copy input to send signals into the computer?
    A. Scanner
    B. Keyboard
    C. Photocopier
    D. Printer

39. A network-end device is generally referred to as
    A. Server
    B. Hub
    C. Node
    D. Client

40. This device is usually used to connect computers in a LAN. If it receives a message, it checks who it is addressed to, and only sends it to that specific computer
    A. Switch
    B. Hub
    C. Router
    D. Proxy Server

41. The worldwide interconnection of computers is referred to as the
    A. Web
    B. Internet
    C. WWW
    D. WAN

42. A system which receives input data through sensors and sends a warning signal if this data is outside the acceptable range is
    A. Monitoring system
    B. Control system
    C. Alarm system
    D. Modeling system

43. Using binary arithmetic, the difference of 1101 and 111 gives
    A. 11011
    B. 111
    C. 10100
    D. 1010

44. Which of the following represents a terabyte?
    A. $10^9$ bytes
    B. $10^{12}$ bytes
    C. $10^6$ bytes
    D. $10^3$ bytes

45. A software that will perform normally in different platforms is best described as
    A. Efficient
    B. Reliable
    C. Portable
    D. Usable

46. Software that has been made to perform a unique task is said to be
    A. Generic software
    B. Bespoke software
    C. Application software
    D. Dedicated software

47. A user is sent to a fake/bogus website after clicking on a link in an email received
    A. Pharming
    B. Hacking
    C. Phishing
    D. Spamming

48. Programming languages were introduced in the -------- generation of computers.
    A. First
    B. Second
    C. Third
    D. Fourth

49. A conditional statement with two possible outcomes is
    A. WHILE....DO.....ENDWHILE
    B. REPEAT....UNTIL
    C. IF....THEN...ELSE...ENDIF
    D. IF...THEN....ENDIF

50. A teacher who delivers a live lesson to students at different geographical locations is doing so by:
    A. Teleconferencing
    B. Videoconferencing
    C. Computer assisted learning
    D. Audio conferencing

**STOP**

**GO BACK AND CHECK YOUR WORK**