0796 Information and Communication Technologies 1

GENERAL CERTIFICATE OF EDUCATION BOARD

General Certificate of Education Examination

JUNE 2026 **ADVANCED LEVEL**

Centre Number	
Centre Name	
Candidate Number	
Candidate Name	

Mobile phones are NOT allowed in the examination room.

MULTIPLE CHOICE QUESTION PAPER

Duration: 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. DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

2. USE A SOFT HB PENCIL THROUGHOUT THE EXAMINATION.

Before the examination begins:

3. Check that this question booklet is headed "**0796 Information and Communication Technologies 1**"

4. Fill in the information required in the spaces provided above.

5. Fill in the information required in the spaces provided on the answer sheet using your HB pencil: **Candidate Number and Name, Centre Number and Name.** 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. Electronics calculators are not allowed

8. 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]

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 rough work in this booklet, using, where necessary, 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 after. DO NOT ATTEMPT TO LEAVE THE EXAMINATION HALL WITH IT.**

Turn Over

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1. A possible way to improve your computer performance is to increase the:

   A) CPU speed.

   B) Number of applications.

   C) ROM

   D) RAM size.

2. The purpose of defragmentation of the hard disk is to:

   A) regroup unused memory spaces.

   B) arranged files serially.

   C) bring files into a single cluster.

   D) split large files for easy access.

3. What will be the consequence of the absence of a RAM in a PC?

   A) The PC cannot run programs.

   B) The PC will not boot.

   C) The PC will run slow.

   D) The PC will not power on.

4. The program structure that allows a set of instructions to be done repeatedly is called a (n):

   A) sequence.

   B) Selection.

   C) Iteration.

   D) Branching.

5. A memory type found in the CPU is the:

   A) Register.

   B) CMOS.

   C) RAM.

   D) ROM.

6. An example of Object-oriented programming language is:

   A) C++.

   B) PASCAL.

   C) BASIC.

   D) FOTRAN.

7. Which technique is preferable for transferring a large amount of data to and from a memory in a short time?

   A) Direct Memory Access.

   B) Interrupt driven I/O.

   C) Programmed I/O.

   D) Non maskable interrupt driven I/O .

8. One way to prevent RSI by secretaries is to:

   A) often break eye contact with the monitor.

   B) use wrist pads.

   C) drink pain killers before work.

   D) use LCD monitor.

9. Which of the following is the fastest guided transmission medium?

   A) Twisted pair cable.

   B) Coaxial cable.

   C) Telephone cable.

   D) Optic fiber.

10. 10001101111_2 can be written in hexadecimal as

    A) $4E7_{16}$.

    B) $46F_{16}$.

    C) $86F_{16}$.

    D) $8E7_{16}$.

11. The device that directs network signals to take specific pathways in a WAN is called a:

    A) gateways.

    B) Switch.

    C) Repeater.

    D) Bridge.

12. The content in the web pages stored in a school intranet can be viewed by use of;

    A) a search Engine.

    B) adobe Reader.

    C) a browsers.

    D) Outlook.

13. A software that converts codes from assembly language to object code is known as a/an:

    A) compiler.

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B) Debugger.

C) Assembler.

D) Interpreter.

14. A programmer can effectively manipulate the items in an array data structure through the use of a(n):

A) index.

B) Pointer.

C) Link.

D) Key.

15. A communication status which tolerate two way communication simultaneously is called:

A) Pipelining.

B) Multiplexing.

C) Full-duplex.

D) Synchronization.

16. Two network segments with different protocols can communicate with the help of a:

A) bridge.

B) Gateway.

C) Switch.

D) Repeater.

17. An employee can operate from home using the organisation's network. This is called:

A) video conferencing.

B) Teleconferencing.

C) Teleworking.

D) Telecommunication.

18. The maximum number of characters that can be represented by a computer using 8 bits system is:

A) 8.

B) 64.

C) 128.

D) 256.

19. An example of a mono-tasking operating system is:

A) linux operating system.

B) macintosh operating system.

C) disk operating system.

D) apple operating system.

20. A database is NOT normalized. One reason could be that:

A) It has many tables.

B) It has a one-to-many relationship.

C) More than one fields hold similar data.

D) More than one primary key exist within the database.

21. In which of the following devices can the content be modified only by electrical means:

A) SDRAM.

B) RAM.

C) EEPROM.

D) CMOS RAM.

22. Which is **NOT** a step involved in creating a design document in software development?

A) Study the current system and needs.

B) Selecting special hardware.

C) Create the Data Dictionary.

D) Outline all the steps development processes.

23. Interference of signals can be reduced in a network by

A) using high bandwidth.

B) twisting the cables.

C) use of switch.

D) reducing number of nodes.

24. An example of a file format used for vector graphics is:

A) .GIF.

B) .PNG.

C) .DOC.

D) .AVI.

25. The act of mimicking or imitating the operation of a system is?

A) Artificial Intelligence.

B) Expert system.

C) Modeling.

D) Simulation.

26. The logic gate that produces 0 if its two inputs are the same and a 1 otherwise is a(n):

A) NOR.

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B) XNOR.

C) XOR.

D) NAND.

27. JavaScript can be embedded in an HTML page between?

A) <style> and </style>.

B) <html> and </html>.

C) <script> and </script>.

D) <body> and </body>.

28. An information system that is used by an organisation to run its day-to-day activities is known as a:

A) Desktop publishing system.

B) Transaction processing system.

C) Management information system.

D) Data entry system.

29. Which of the following statements describes a good security measure for an organisation's information system?

A) Network all the computers.

B) Passwords are never changed.

C) Sensitive data is only made available upon request.

D) Keeping an off-site backup of all files

30. Which of the following is a common feature of e-learning?

A) Always require physical class attendance

B) Cannot download documents for later reading.

C) Learning at convenience.

D) It requires a network.

31. The rules governing the rights of data subject are called:

A) Data Privacy Law.

B) Copyright Law.

C) Data Protection Legislation.

D) Data Subject Law.

32. A malicious attempt to make a computer resource such as a web site unavailable to its intended users is termed:

A) Hacking.

B) Spamming

C) Denial of service

D) Computer fraud

33. Verification of login name and password is called

A) Validation.

B) Sign In.

C) Authentication.

D) Digital signature.

34. Which of the network topologies uses the least quantity of cables?

A) Mesh.

B) Bus.

C) Star.

D) Ring.

35. The data transmission method in which one bit is followed by another without gaps is known as:

A) Synchronous transmission.

B) Asynchronous transmission.

C) Parallel Transmission.

D) Half duplex transmission.

36. When the same data field appears more than once in a file it could lead to:

A) Data redundancy.

B) Data inconsistency.

C) Data dependency.

D) Data independency.

37. Which of the following is **NOT** an SDLC model?

A) Waterfall.

B) Sequential.

C) Iterative.

D) Spiral.

38. By increasing the RAM of a computer performance is improved because:

A) virtual memory increases.

B) the clock speed increases.

C) larger programs can be loaded at once.

D) fewer segmentation faults occur.

39. In which storage medium is recording done by creating lands and pits?

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A) Punch cards.

B) Floppy disk.

C) Magnetic tape.

D) Optical disc.

40. The result of the binary operation 10010 + 1001 is

A) 10111.

B) 11001.

C) 11111.

D) 11011.

41. Which of the following is in the ascending order of data hierarchy:

A) bit - byte - record - field - data base – file.

B) bit - byte - field - record - file – database.

C) bit - byte - file - field - record – database.

D) bit - record - byte - field - file – database.

42. One limitation of PERT chart is that it:

A) does not show the duration of a task.

B) does not show the order of task execution..

C) is complex to understand.

D) is difficult to tell which tasks are going on a particular date.

43. A malicious program that disguises itself as a useful application and does something that the user does not expect is

A) Virus.

B) Worm.

C) Trojan horse.

D) Spyware.

44. The approach to break complex problems into solvable simple sub tasks is known as:

A) divisibility approach.

B) Step by step approach.

C) bottom-up approach.

D) top-down approach.

45. The instruction that controls the activities of the processor in handling different processes and routines is known as:

A) interrupt.

B) Executable.

C) Loop.

D) main stream.

46. Language translators are important in that they:

A) translate programs from one human language to another.

B) enable the CPU to execute source codes.

C) enhance the functioning of the operating system.

D) make the operating system to recognise commands.

47. Which of the following can enhance the communication between devices in a network?

A) Clock speed.

B) Cable length.

C) Type of cable.

D) Strength of server.

48. The technique to detect and correct errors in a code is called:

A) Proof reading.

B) Simulation.

C) Compiling.

D) Debugging.

49. A foreign key in a relation refers to a

A) primary key of another table.

B) key field that is imported from other database.

C) key field that can replace the primary key.

D) field that comes after the primary key in a relation.

50. An item that must be declared in a program before its usage is called a/an

A) variable.

B) Tag.

C) Header.

D) algorithm.

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