# GENERAL CERTIFICATE OF EDUCATION BOARD General Certificate of Education Examination

## 0796 INFORMATION AND COMMUNICATION TECHNOLOGIES 1

**JUNE 2022** 

ADVANCED LEVEL

Centre Number	/	. 0	(0)
Centre Name			
Candidate Identification No.	. 60.		(0)
Candidate Name	1	- 6	
. 0'	70		

# 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.

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

### Before the examination begins:

- 3. Check that this question booklet is headed "Advanced Level 0796 Information and Communication Technologies 1"
- Fill in the information required in the spaces above.
- Fill 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 instruction.

### 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] [G] [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.
- 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. Do all rough work in this booklet, using the blank spaces in the question booklet.
- 11. At the end of the examination, the invigilator shall collect the answer sheet first and the question booklet.

## DO NOT ATTEMPT TO LEAVE THE EXAMINATION HALL WITH IT

Turn Over

1.	Which of the following is the fastest memory medium in the computer?		And	operation code with $n$ bits will imply that $n$ are possible distinct operations.
	BOF EDUCATION BOARD A. Hard disk.	TAMAI	there	are are positive distinct operations.
	A Hard disk. UMANH MOHADHH 10 N B ROM. noitenimerA noiteoub?	To officit	HTO A	1:5000
	C SRAM.		C	n/2
	D DRAM. 1231DOLOGHOST	MOTTA.	D	n/2 (m/20) OKA KOTTAMSIO INI 0970
2.	Frequently, used instructions by the CPU are	10.	The	main purpose of a digital certificate is to:
	stored in the:		Α	Authenticate the source of a file.
	A Hard disk.	and the second second second second	В	Ease award of certificates through Internet Make certificates available online for other
	B ROM.		C	users to confirm
	C RAM.		D	To make certificates difficult to reproduce.
	D Cache memory.			
3.	The suitable computer to execute many programs	11.		binary equivalent of the octal number 625 is
\\\	for hundreds of users at the same time			110010101
	performing relatively simple operations and the same time,	ons TOA	938 <b>B</b> 3	(4.1000.110.1
	transactions is:	i httpii.	D D	110000101
	A Mainframe.	ย โดย วิส(	_	
	Value of the second			operation that is executed a number of times
	C Personal computer.	SAOLO		fferent places in your algorithm can be acted out and made into:
	D Microcomputer.	7.15.1 1 10.011		Function.
4	The maximum number of characters that can be	2 5 5 - 1 3 1	4	Control structure.
	represented by a computer that operates a 4 bits			
	system is Communication of the		C	Iteration. Module.
	A 8			
	B 16	13		iable type which can conveniently store
	C > 32			ent elements of the same type under
	D 4		_	name is called
5.	is a network device that combines	_111 V 113	A	10
	multiple signals for transmission on a single		B	A queue.
	channel.	North of	D	An array. A stack.
	A Multiplexer.			
	B Demultiplexer.	14.		tware subject to copyright that users car
	C Router.			oad from the Internet and use for free is:
1	D MODEM.		A B	Open source. Freeware.
6.	Critical path of the PERT chart is:		C	Shareware.
	A the shortest path to complete the project.	•	D	Utility software.
92	B the average path to complete the project.	1,7		0 2
	C the path which takes the longest time to	15.		ise of makes it easier to
	complete the project.		organ A	nize files in a logical way. File extension.
	D the path which takes the shortest time to	. 9	В	File name.
	complete the project.	14:05-05	Č	
7.	The formal way to close a project is to			Folder. File Path
	A Get the stakeholders to accept that the		D	
	project is complete.	16.		stem that can predict weather conditions is:
(O)	B The project manager and his workers	9000	A	Decision support system.
	accepts that the project is complete		B	Expert system.
1/0	C Paying all the workers and return all tools		D	Transaction support system.
	D Ensure that all tasks have been executed.	6	178	Geographical Information System.
8.	A laptop performance can be improved by?	17.		nemory device that holds current date and
	A Increase the CPU speed.	115 114		on your computer is called:
	B Using utility software.	AIN P	A	DRAM.
	C Increase the resolution power.		C	Clock. ROM.
	D Increase the RAM size.			CMOS.
	84			City Harris

18.	Which of the following is a characteristic of .E.
	broadband?
	A Completely safe from intruders
	B It has a dial up connection, 12
	271.70
19.	A real-time operating system is used in:
	A Controlling access to a network printer.
	B Providing services to all users of the network
	at the same time.
	C Managing the access to system files in a
27 / 10	45. The appropriate action to resugmost emine y
	Controlling the fuel injection system of an
	automobile engine animated A
20	An airline reservation system is an example of
	A Batch processing.
	B Real time processing.
	C of On line processing a good region of A
	D Time sharing processing.
21.	Data redundancy is a database anomaly that:
	A deletes data that has not been used for long.
	B Causes unnecessary duplication of data.
	C Forbids data of a particular type.
	D Selects data that occur too often.
22.	Why is it necessary for an organization to adopt a
	good password policy?
	A Easy sharing of files across the network.
	B Easy connection of computer to a network.
	C To protect files against unauthorized use.
	D Easy access of files on a computer.
23.	Which one of the following monitors incoming
	network traffic to prevent unauthorized attacks?
	A Data guard.
	B Fireguard.
	C Data shield
	D Firewall.
24.	A network topology whose components are
	connected physically to the cable trunk is:
	A Star topology.
	B Ring topology.
	C Bus topology.
	D Mesh topology.
25.	The logic gate with one input and one output is:
	A NOT gate.
	B AND gate.
	C XOR gate.
	D NAND gate.
26.	Which of the following is NOT a feature of
	electronic commerce?
	A Goods can be advertised and prices compared

Transactions can be processed quickly.

Customers are identified before buying.

Services are available 24 hours a day.

of 27 down Which of the following describes Instant mayailable to its intended as gaigassaMarmed? Sending messages through fax. e-mail communication. C Making voice communication over Internet. D Real-time text-based communication. 28. Quality Developer is a company that writes programs to do specific/jobs for other companies. These programs are called? protors A. Custom-purpose software General-purpose software ! C Off-the-shelf software Special-purpose software. D 29 One important role of interface in design is: Augilt presents menus to users. Boult teaches users how to operate the machine much Calalt makes decoding of information easier. It hides the complexities of the machine. 30. The stream of bits used to control the flow of data in asynchronous communication is called. Error control bits. B Parity bits. C Start-stop bits. Clock.  $4AC_{16} + 9BF_{16}$  is equal to: 31. E6B<sub>16</sub> A7BF16 C CFC<sub>16</sub> D6D<sub>16</sub> The quality of sound from a speaker is best determined by Speakers. В Sound card. C Media player. D Processor. 33. Which of the following about an end user license agreement is true? It gives full ownership of the software to the user. It gives the user the exclusive right to copy and sell the software to others. It gives the user the right to modify the software. D It gives the user the right to install and run the software on a specified number of computers. The rules governing the rights of data subjects are called? Data Privacy law. B Copyright law. Data Protection legislation.

Data Publicity Law.

C

- 35. A malicious attempt such as to make a a web site unavailable to its intended users can be termed?
  - A Hacking.
  - B Spamming
  - C Denial of service
  - D Computer fraud
- 36. A tool in the Internet that assist users to locate resources in the World Wide Web is
  - A Protocol
  - B E-mail
  - C Web browser
  - D Search engine
- 37. Which one of the following is a good password policy for an organization?
  - A All passwords are changed regularly
  - B All passwords are never changed.
  - C All passwords are made up of less than four characters.
  - D All passwords are made up of less than four numbers.
- 38. Which one of the following statements about Internet connection services is true?
  - A Broadband connections are always-on while your computer is switched on.
  - B Dial-up connections are usually faster than
  - broadband connections.
    - You cannot use your telephone line to
  - C make calls while using a broadband connection.
  - D Dial-up connections are always-on while your computer is switched on.
- 39. One function of an operating system is:
  - A It retrieve information from a database
  - B It controls the allocation of hardware
  - C It is used for booting the computer.
  - D It processes data.
- 40. The 2's complement of the binary expression 1001 is
  - A 1001
  - B 0111
  - C 0110
  - D 0101
- 41. A format that best guarantees file quality is:
  - A BMP
  - B PNG
  - C TIFF
  - D JPEG
- 42. The recycler in the computer that recovers deleted files is an example of:
  - A Application software.
  - B General purpose software.
  - C Bespoke software.
  - D Utility software.

- 43. An abstract data structure that use FIFO is:
  - A List
  - B Queues
  - C Stack
  - D arrays
- 44. is a property of a programming language.
  - A Syntax
  - B Interface
  - C Editor
  - D Comments
- 45. The appropriate action to take to determine why a software is failing to give the required result is
  - A Debugging
  - B Requirement analysis
  - C Compilation
  - D Feasibility study
- 46. A foreign key in a relation refers to a:
  - A Primary key of another table
  - B Key that is imported from other database
  - C Key field that can replace the primary key
  - D Field with no relation with other keys.
- 47. Which of the following is the best way to maintain a good posture when working with a computer?
  - A Sit well
  - B Make sure your feet touch the floor
  - C Take frequent breaks
  - D Make sure that your computer, desk and chair are positioned correctly
- 48. Which of the following is the descending order of data hierarchy
  - A database record- file field byte -bit
  - B database file record field byte -bit
  - C database record -file field byte -bit
  - D database file record byte field -bit
  - 49. 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>.
- 50. The technique prefered to transfer large amount of data to and from a memory in a short time is:
  - A Programmed I/O
  - B Interrupt driven I/O
  - C Direct Memory Access.
  - D Non maskable interrupt driven I/O

### GO BACK AND CHECK YOUR WORK