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0795/1/2022 Computer Science A/L

SOUTH WEST REGIONAL MOCK EXAMINATION GENERAL EDUCATION

Pedagogic Inspectorates and the Subject Teachers' Association (STA)	Subject Code 0795	Paper Number
CANDIDATE NAME CANDIDATE NUMBER CENTRE NUMBER	Subject Title COMPUTER SCIENCE	
ADVANCED LEVEL	04/04	TE /2022 NING)

Time Allowed: One hour thirty minutes

INSTRUCTIONS TO CANDIDATES:

- 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 "Advanced Level 0795 Computer Science, Paper 1".
- 4. Insert the information required in the spaces provided 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.
- 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.
- 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:

- 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.

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C Associative law D Idempotent law Note that the server only B The requesting device only C Some devices in the network D All the devices in the network D All the devices in the network C Associative law B Operands. B Operators. C Both operators and operands. D Pointers. 13. An ASCII character is said to be code byte. How many bits are needed to word within quotes "CGCEB"? A 42. B 6. C 40.				bina	Ity expression tree correspond?
D Idempotent law B Operators. C Both operators and operands. D Pointers. 7. When content is multicast in a local area network, it is received by: A The server only B The requesting device only C Some devices in the network D All the devices in the network D All the devices in the network D C 40.				A	Operande
C Both operators and operands. D Pointers. 7. When content is multicast in a local area network, it is received by: A The server only B The requesting device only C Some devices in the network D All the devices in the network D All the devices in the network D C Both operators and operands. D Pointers. 13. An ASCII character is said to be cod byte. How many bits are needed to word within quotes "CGCEB"? A 42. B 6. C 40.					
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A The server only B The requesting device only C Some devices in the network D All the devices in the network D C Some devices in the network D All the devices in the network D C Some devices in the network D All the devices in the network D C Some devices in the network D All the devices in the network D C Some devices in the network	200	network, it is received by			
B The requesting device only C Some devices in the network D All the devices in the network B 6. C 40.			13.	An	ASCII character is said to be coded in one
C Some devices in the network D All the devices in the network B 6. C 40.				byte	e. How many bits are needed to code the
D All the devices in the network B 6. C 40.		C Some devices in the network		Wor	d within quotes "CGCEB"?
C 40.		D All the devices in the network		A	42.
C 40.		A TOTAL OF THE STATE OF THE STA			6.
D 68					
				D	68.
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4.	In v	which phase of the system development			of software possible
	proc	ess is documentation aimed at determining		mean	of software, possibly incomplete, that is
	what	the system must do?		spect	fications between software producer and
	A B	Analysis Design		A	lies in a
	C	Investigation		В	User interface.
	D	Construction		C	System prototype.
	D	Construction		D	System model. Pscudo code
5.	Whi	ch of the following is a testing technique	22.	10	
	which	ch is used to demonstrate that each program	L.L.	II a i	new device, such as a printer or scanner, is
	func	tion is operational?		attac	hed to a computer, which software needs to
	A	System testing			ocioie die device can function
	В	Unit testing		rp	vii)
	C	Whitebox testing		A	Patch
	D	Blackbox testing		В	Driver
				C	Compiler
6.	Whi	ich of the following bitwise Boolean		D	Device controller
		ctions can be used to find the two's	22	77.0	- 63
		aplement of a number?	23.	Wha	at is the number of comparisons that will b
	A			COIL	a binary scarch in a sorted server of
	B	Bitwise OK Bitwise NOT		Cicii	ichis ii the element sought is NOT in th
	C	Bitwise AND		1151	
				A	n
	D	Bitwise XOR		В	n/2
7	77.07	(A. C.A. C.W		C	log n
7.		ich of the following devices is best suited for		D	$1 + \log n$
	con	verting computer generated signals into a	-		
		m that is suitable for transmission on a	24.	Whi	ich of the following is not caused by t
	tele	phone line?		exec	cution of a return instruction from a routine
	A	Modem		A	Transfer control to the caller routine.
	В	Router		В	Load the PC with a popped value from
	C	Multiplexer			stack.
	D	Network adapter		C	Resume program execution from the po
					where branching occurred.
18.		a binary search tree, the in-order successor of		D	CPU saves the return address on the top
	a gi	iven node n is the node with:			a stack.
	A	Minimum value in the right subtree of n			
	В	Minimum value in the left subtree of n	25.		at is the smallest number that can
	C	Maximum value in the right subtree of n		тери	resented in 8-bit two's complement?
	D	Maximum value in the left subtree of n		A	01111111
	(-9)			B	11000000
19.	Wh	nich of the following is a data transmission		C	10000000
	me	thod where many channels are used at the		D	11000001
	san	ne time; achieved by using a range of			
	fre	quencies?	26.	Wh	en implementing a database, creating a
	A	Parallel transmission		to-r	many relationship between two tables can
	В	Synchronous transmission		don	ne by adding the primary key of one table
	C	Baseband transmission		the	related table as a(n)
	D	Broadband transmission		A	Composite key
	0			В	Foreign key
20.	Th	e number of address lines required to address		C	Candidate key
1		nemory of 256K is:		D	Alternate key
	A	15 lines		D	Attendit key
	B	16 lines	27	TT	
	C	18 lines	27.		c type of programming language
	D				sociates data and operation together is kn
	D	14 lines		as:	
	1	A LONG TO SERVICE TO S		A	Procedural
				В	Logic
				C	Functional
			Y AND	D	Object-oriented
				-	

Which of the following is used in a computer Ukamer info wing is not a function of RAM network to determine which application a It holds programs and data that are in transmission should be delivered to, on current use by the processor particular computer? It holds data that has been processed and Port number waiting to be sent to a storage device Protocol B it holds frequently requested data for Domain name quick access by the CPU IP address It holds the boot or start-up program which is run when the computer is What is the result of the postfix expression 3 10 switched on 5++9 A 35 Parity bits are used for which of the following 53 B purposes? 45 C A Error detection D 65 Error correction B The collection of related data elements possibly Faster transmission C of different types stored as a single unit is a(n): Synchronisation. Record If a magnetic disk contains 4 tracks of 16 sectors B Array per side, and each sector can hold 8 bytes of C List data, what is the exact capacity of the disk in Tree kilobytes? The SUM output of a half adder is obtained by 0.5KB which of the following gates? B 1.4KB AND C A IKB B OR 2KB C XOR D NAND A bus feature that facilitates the discovery of a hardware component in a system without the When an IF statement is used within another IF need for physical device configuration is known statement this is called: as: Assignment A Pairing B Nesting B Compatibility C Selection C Connectivity D Looping D Plug n play A character set uses 7 bits to encode each One 39. address instruction formats character. What is the maximum number of characteristic to which of the following CPU characters that can be represented in this organisations? character set? A RISC 56 characters B CISC B 49 characters C Load/Store C 128 characters D Accumulator Any number of characters The memory Unit which communicates directly 40. What is the purpose of a PS/2 port on a with the CPU is called the: computer? Direct memory A To connect a monitor to the computer B Virtual memory B To connect a printer to the computer C Main memory C To connect a projector to the computer D Auxiliary memory D To connect a keyboard to the computer When higher versions of an operating system are written so that programs designed for earlier versions can still be run, this is known as: Portability B Upgradability Interoperability D Compatibility

- when a page from WWW eccukament and the work of the evicted in order to create space. page needs to be evicted in order to create space. Which of the following is true about the page which is selected for eviction if the LRU replacement policy is used?
 - The selected page must not be a dirty
 - The selected page must be the first to arrive in memory.
 - The selected page must have not been used for the longest time in the past.
 - The selected page must have the least count of number of times used.
- Given a full binary tree with 2n + 1 nodes, where n is the number of nodes, this binary tree contains:
 - n leave nodes
 - n non-leaf nodes
 - n-1 leaf nodes
 - n-1 non-leaf nodes
- Which of the following provides an interface between a user process and the operating system?
 - Kernel
 - interrupts B
 - System Calls C
 - Scheduling algorithm
- 45. A variable which is visible only in the function in which it is defined is called:
 - Actual parameter
 - Formal parameter B
 - C Global variable
 - Local variable
- The next binary number in the sequence 0000, 0001, 0001, 0010, 0011, 0101 is:
 - 1000 A
 - B 1010
 - C 0100
 - D 0111
- When the primary key of a relation is a determinant for another attribute, which in turn is a determinant for a third attribute this situation is called:
 - A Multi-level dependency
 - B Transitive dependency
 - C Partial dependency
 - Multi-valued dependency

- IS NOT TRUE about queue data structures?
- A They are also called FIFO lists B
- They store data in a linear fashion
- Items are inserted at the tail and removed from the head
- They can be used to evaluate arithmetic expressions
- Which of the following correspond to the three criteria which any solution to the critical section problem must satisfy?
 - Request, use and release
 - Entry section, critical section, and exit
 - Mutual exclusion, progress, and bounded waiting
 - Mutual exclusion, no pre-emption, and circular-wait
- Consider the pseudocode fragment below where % is the modulo arithmetic operator.

For k + 0 To N-1 Step 2 If k % 3 = 1 Then

Print(k)

EndIf Next k

For N = 20, what is the expected output of the pseudocode fragment above?

- 4, 010, 16
- 0, 6, 12, 18
- 1, 4, 7, 10, 13, 16, 19 C
- 0, 2, 4, 6, 8, 10, 12, 14, 16, 18

STOP

GO BACK AND CHECK YOUR WORK