OL/2019/80/E-I, II සියලු ම හිමිකම් ඇව්රිණි / (භූඥාර්) பනිට්பු හිකෙයාන / All Rights Reserved l ශී ලංකා විභාග දෙපාර්තමේන්තුව epartment of Examinations, Sri Lanka Danismail பரீட்சைத் திணைக்களம் nt ்கைப் புட்சைத் திணைக்களம் இலங்கை Department of Examinations, Sri Lanka අධාායන පොදු සහතික පතු (සාමානා පෙළ) විභාගය, 2019 දෙසැම්බර් கல்விப் பொதுத் தராதரப் பத்திர (சாதாரண தர)ப் பரீட்சை, 2019 டிசெம்பர் General Certificate of Education (Ord, Level) Examination, December 2019 I, II තොරතුරු හා සන්නිවේදන තාක්ෂණය I, II தகவல், தொடர்பாடல் தொழினுட்பவியல் 06.12.2019 / 0830 - 1140 Information & Communication Technology I, II පැය නුනයි අමතර කියවීම් කාලය මිනිත්තු 10 යි மூன்று மணித்தியாலம் மேலதிக வாசிப்பு நேரம் - 10 நிமிடங்கள் Three hours Additional Reading Time - 10 minutes Use additional reading time to go through the question paper, select the questions and decide on the questions that you give priority in answering. Information & Communication Technology I Note: * Answer all questions. * In each of the questions 1 to 40, pick one of the alternatives (1), (2), (3), (4) which is correct or most appropriate. * Mark a cross (X) on the number corresponding to your choice in the answer sheet provided. * Further instructions are given on the back of the answer sheet. Follow them carefully. **1.** Which of the following devices have both *input* and *output* capabilities? (1) joystick (2) OCR Device (3) touch screen (4) webcam 2. Which of the following can be a good practice to protect data and information from computer hard disk failures? (1) installing a firewall (2) installing an antivirus software (3) taking periodic backups (4) using a strong password Which of the following is correct regarding the generations of computers? *(1) Integrated Circuits (ICs) were introduced in 1st generation computers. \times (2) Vacuum tubes were introduced in 2nd generation computers. \times (3) Transistors were introduced in 3rd generation computers. (4) Very Large Scale Integrated Circuits (VLSI) were introduced in 4th generation computers. 4. Which of the following are related to G2C (Government to Citizen) services in Sri Lanka? A - viewing G.C.E. (O/L) results online B - ordering food items online C - renewing vehicle revenue licenses online (2) A and C only (3) B and C only (4) all A, B and C (1) A only 5. Which of the following is an example for data processing? (1) calculating the account balance using banking software after a cash withdrawal (2) copying a file from a USB drive to a hard disk of a computer (3) installing sound editing software in a personal computer (4) scanning a letter using a scanner

+	Select the most suitable computer type from a <i>super computer</i> , a <i>laptop computer</i> and a <i>table computer</i> , for the following applications:
	SupA - to process very large amounts of data that are continuously obtained through satellites of B - for a writer to work on an essay during a vacation away from home of C - for a travelling sales representative to enter item requests while visiting shops
	(1) A: laptop computer, B: super computer, C: tablet computer (2) A: laptop computer, B: tablet computer, C: super computer (3) A: super computer, B: laptop computer, C: tablet computer (4) A: tablet computer, B: super computer, C: laptop computer
	Consider the following statement with blanks labelled (A) and (B):
	When processing, the CPU uses its $oxtleam$. to temporarily store data that are brough from $oxtleam$.
	Which of the following combinations is suitable to fill the blanks labelled (a) and (b) respectively (1) primary memory, registers
-	(2) registers, primary memory (3) secondary memory, primary memory
-	(4) secondary memory, registers
	Which of the following are correct regarding transmission media?
1	XA - Unshielded Twisted Pair (UTP) cables are suitable to transmit data for long distances
- Andread - Company - Comp	over 200 m. B - Fiber optic cables transmit data faster than UTP cables. - Infrared data transmission is used in wireless keyboards to communicate with computers.
-	(1) B only (2) C only (3) B and C only (4) all A, B and C
	9- Which of the following statements are true? Which of the following statements are true?
4	A - Binary form is used to store data and instructions in computers. xB - 945 is a valid number both in the octal and hexadecimal number systems. C- 412 ₈ is equivalent to 100001010 ₂ .
Parallel San	(1) A only (2) B only (3) A and C only (4) all A, B and C
	Which of the following shows the given storage components in descending order of access speed (1) cache memory, main memory, register, hard disk
	(2) hard disk, cache memory, register, main memory (3) register, cache memory, main memory, hard disk (4) register, main memory, hard disk, cache memory
	14. If character 'E' is represented in the ASCII table as 69 ₁₀ , what is the binary representation of character 'G' in the ASCII table?
	(1) 1000110 (2) 1000111 (3) 1001000 (4) 1001001
1	12. Which of the following contains only the tasks of an operating system? (1) payroll management, process management, file management
	(2) process management, database management, file management(3) process management, memory management, database management
	(4) process management, memory management, file management
	Which of the following techniques can be used to increase the free space of a hard disk without
1	deleting any existing files?
-	(1) compression of existing files on the hard disk copying some files in the hard disk to a flash drive
-	(3) formatting of the hard disk
1	(4) partitioning of the hard disk

14.	While editing a document of the document to anot to carry out this task? (1) Ctrl + C followed by	her document. Which	ch of the follows: (2) Ctrl + N	owing key comb	inations will enable you 1 + V
-	(3) Ctrl + P followed by	Ctrl + V	(4) Ctrl + V	followed by Ctr	I+C (II Aooti
	Consider the range of coincluded in this range? (1) A3 and C4 only (3) A3, A4, C3 and C4 Consider the following s	only all street	(2) A3, B3 (4) A3, B3,	and C3 only C3, A4, B4 and	A d C4 only
		A	В	C	
	Library Member	1 Name	Sales (Rs)	Commission (Rs)	many lasheld
		2 A. Dias	50000		AQX A
	1180	3 B. Sivarajah	60000	The second secon	40 00 0 × 10
		4		com.	V
		5 Percentage:	0.1		
		6		1001	
	You want to add a blar following key combination (1) Ctrl+M (2) Which of the following content arrangement of	features of electronal slide from Arran	or this purpos (3) Shift+B onic presentati	se? (4) Shion software can Arrangement 2?	nift+V be used to change the
	Arran	gement 1		servation able	(3) Reserved Date
	(1) Slide layout (2)	Slide show	(3) Slide so	orter (4) Sl	ide view
19.	Which of the following i software?				
ю	(1) changing line space (3) mail merge		(2) find and (4) spell ch	ecker	
20.	Which of the following presentation?	ing is suitable in		improve the qu	nality of an electronic
	✓ A - limiting the num ✓ B - not having a lan C - using a lot of r	ge number of picto	ures and grap	between 6 and 9 ohs on a single s	slide and to do to the same as
) A and C only	(3) B and (C only (4) al	1 A, B and C

26, Every web page on the World Wide Web (WWW) has a unique identifier called the



[see page four

• Questions 21 to 24 are based on the following partly shown database tables that are used to store data about books, students, and books reserved by students in a school library.

Table: Book (Contains the details of books and whether each book is reserved or not.)

Book_ID	Title	Reserved
B0001	Effective Writing	TRUE
B0002	Classic Short Stories	TRUE
B0003	Poem Writing	·FALSE
B0004	Vocal Theory	TRUE

Table: Student (Contains details of all students in school and whether each student is a library member or not.)

Student_Name	Student_ID	Grade	Library_Member
Piyal	1001	7	TRUE
Kumar	1002	9	TRUE
Ismail	1003	8	TRUE
Sunil	1004	10	FALSE
Sarath	1005	7	TRUE

Table: Reservation (Contains details about books reserved by students.)

Student_ID	Reserved_Date	Book_ID
1003	02/03/2019	B0002
1002	23/04/2019	B0001
1005	16/06/2019	B0004

21.	How	many	fields	are	in	the	Student	table?	
						-			100

(1) 2

(2) 3

(3) 4

(4) 5

22. What would be an example of a foreign key in the database?

(1) Book_ID in Reservation table

- (2) Grade in Student table
- (3) Reserved_Date in Reservation table (4) Title in Book table

23. What is the title of the book reserved by Kumar?

(1) Classic Short Stories

(2) Effective Writing

(3) Poem Writing

(4) Vocal Theory

- 24. A student gets the library membership and reserves a book. What tables need to be updated for this purpose?
 - (1) Book table and Reservation table
 - (2) Book table and Student table
 - (3) Reservation table and Student table
 - (4) Book table, Reservation table and Student table

25. Which of the following shows the correct order of testing a software system?

- (1) acceptance testing, integration testing, unit testing, system testing
- (2) system testing, integration testing, acceptance testing, unit testing
- (3) unit testing, acceptance testing, system testing, integration testing
- (4) unit testing, integration testing, system testing, acceptance testing

Every web page on the World Wide Web (WWW) has a unique identifier called the

- (1) email address. (2) hyperlink.
- (3) IP address.
- (4) URL.

27. Which of the following combinations contains only Internet related protocols?

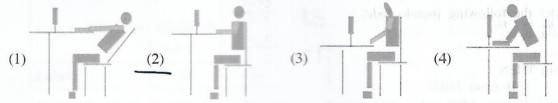
- (1) FTP, HTML, HTTP, SMTP
- (2) FTP, HTML, HTTP, TCP/IP
- (3) FTP, HTTP, SMTP, TCP/IP
- (4) HTML, SMTP, TCP/IP, URL

- 8. Which of the following combinations represents only the services of the Internet?
 - (1) email, file sharing, remote access, streaming of media
 - (2) email, file sharing, streaming of media, web browsers
 - (3) file sharing, HTML codes, remote access, search engines
 - (4) remote access, search engines, streaming of media, web browsers
- 29. Consider the following list rendered by a web browser:
 - Science
 - Maths
 - English

Which of the following HTML tags are required to create the above list?

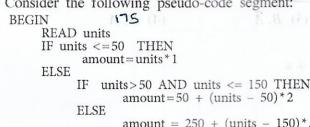
- (1) < dl > < dt >
- (2) $\langle dl \rangle, \langle li \rangle$
- (3) ,>
- (4) $\langle ul \rangle, \langle li \rangle$
- 30) Which of the following statements related to web page development are correct?
 - A The content shown in dynamic web pages may vary according to user inputs or time.
 - B Dynamic web pages are created only using HTML.
 - C Web authoring tools can be used to create web pages.

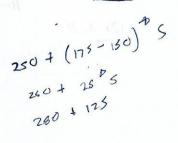
- (1) A and B only (2) A and C only (3) B and C only (4) all A, B and C
- 31. Which of the following tags can be used for HTML character formatting?
 - $(1) \langle i \rangle$, $\langle b \rangle$, $\langle u \rangle$, $\langle em \rangle$
- (2)
, , <u>,
- (3) , , <u>,
- (4) (i>, , ,
- 32. Which of the following is the correct posture to use when using a computer?



- 33. How many bits per pixel (bpp) are required to represent 32 colours?
- (2) 5
- (3) 6

- **34.** What would happen to an image if its resolution is decreased?
 - (1) quality and the file size of the image increases
 - (2) quality and the file size of the image decreases ~
 - (3) quality increases while the file size of the image decreases
 - (4) quality decreases while the file size of the image increases
- 35.) Which of the following statements are true?
 - ✓ A Pascal is an example of a high-level programming language.
 - B High-level language programs are easier for the programmers to understand than low-level language programs.
 - C A compiler translates a high-level language program into machine language instructions. (1) A and B only (2) A and C only (3) B and C only (4) all A, B and C
- 36. Consider the following pseudo-code segment:





amount = 250 + (units - 150)*5**ENDIF**

ENDIF DISPLAY amount

What would be the output if the value 175 is input for the variable units?

- (1) 175
- (2) 250
- (3) 300
- (4) 375

	following pseudo-code segment?			
	The second secon			
	terminal=-1 x=0			
	REPEAT	or amount of mount, is		in the could would
		5		
	GET num			
	IF num>x THEN			mes in the
	x=num A 5			
	ENDIF			
	UNTIL num=terminal			
	DISPLAY x			
	(1) -1 $(2) 0$	(3) 4	(4),5	
8.	Consider the following statements	regarding computer prog	grams:	
	A - Variables can contain diffe	erent values at different t	imes.	
	× B - Reserved words of a pro			in t
	language.	gramming ranguage can		
	Which of the following is true wi	ith respect to the above?		
	The second secon			5
	(1) Only A is correct. (3) Both A and B are correct.		d B are incorrect.	
	Jamduros a Rutar to			
9.	Consider the following pseudo-coo	ie:		
	50 30 10 READ a, b, c			
	value = 0			
	IF (a>b) THEN			
	IF (a>c) THEN			
	value = a			
	A LILOU			
	value = c 70 ENDIF			
	ENDIF			
	DISPLAY value			
	If the values input for the variable	les a hand care 50 30	and 70 respectively what wo	uld
		ies a, v and c are so, so		
	the displayed output? (1) 0 (2) 30	(3) 50	(4) 70	
_	(1) 0 (2) 30	(3) 30	(high of the tollow	
0	If 0 and 1 respectively are given	as inputs for X in the f	ollowing logic circuit, what wo	ould
1	the two respective outputs at Y?	/ ~ \	B.x)	
		A	B. X John Light Brands Well	
	the machine language instruct	>	Ly estatement rollegence de la la	
	O bas 8 A lb O X	00) A and B only (2) A and	
		B		
		managae and	(4) B, A	
	χ (2) Λ R		(4) D, A	
	$(1) \ A, \overline{B} $ $(2) \ A, B$	$(3) B, \overline{A} \qquad$		
			IdeaD molts U conte e se l'itemateur	
		(3) B, A **	READ molts U onits and There is a second or the second or	
			IdeaD molts and the control of the	
			Zibor GADI Zibor	
			KIRAD molts If omits = 800 vibrals are served and served are serv	

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