## 007104

OL/2019/80/E-I, II สิสฐ ด ซิติซซ์ สุเอีรีต์ / (บุญบ่า บริบันภ์โลกบนุดา.เบรา / All Rights Reserved ! ශී ලංකා විභාග දෙපාර්තමේන්තුව 80 E epartment of Examinations, Sri Lanka Dஇலங்கைப் பரீப்சைத் Sதிணைக்களம் at I, II HART UP AND Service Department of Examinations, Sri Lanka අධායන 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 නූනයි අමතර කියවීම් කාලය මිනිත්ත 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 3. Which of the following is correct regarding the generations of computers? (1) Integrated Circuits (ICs) were introduced in 1<sup>st</sup> generation computers.  $\times$ (2) Vacuum tubes were introduced in 2<sup>nd</sup> generation computers. (3) Transistors were introduced in  $3^{rd}$  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 0404000038011210 (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

[see page two

- 2 -OL/2019/80/E-I. II Select the most suitable computer type from a super computer, a laptop computer and a tablet computer, for the following applications: SWPA - to process very large amounts of data that are continuously obtained through satellites  $^{1}$  B - for a writer to work on an essay during a vacation away from home 400 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: taptop computer, (4) A: tablet computer, B: super computer, C: laptop computer  $\mathcal{D}$  Consider the following statement with blanks labelled  $\mathbb{A}$  and  $\mathbb{B}$ : from .......B...... Which of the following combinations is suitable to fill the blanks labelled (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? XA - Unshielded Twisted Pair (UTP) cables are suitable to transmit data for long distances over 200 m. B - Fiber optic cables transmit data faster than UTP cables.  $\mathcal{R}$  - 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? 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.  $\mathcal{S}$ - 412, is equivalent to 100001010, (1) A only (2) B only (3) A and C only (4) all A, B and C 19: Which of the following shows the given storage components in descending order of access speed? (1) cache memory, main memory, register, hard disk  $\in 6^{\circ}$ (2) hard disk, cache memory, register, main memory  $f^{10}$ 2/71 (3) register, cache memory, main memory, hard disk G 71 (4) register, main memory, hard disk, cache memory 1. If character 'E' is represented in the ASCII table as 69,0, what is the binary representation of character 'G' in the ASCII table? (1) 1000110 (2) 1000111 (3) 1001000 (4) 1001001 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 13. Which of the following techniques can be used to increase the free space of a hard disk without deleting any existing files? (1) compression of existing files on the hard disk (2) copying some files in the hard disk to a flash drive (3) formatting of the hard disk (4) partitioning of the hard disk [see page three

(	to carry out this task? (1) Ctrl + C followed by Ct (3) Ctrl + P followed by Ct	trl + V rl + V	<ul> <li>(2) Ctrl + N followed by C</li> <li>(4) Ctrl + V followed by C</li> </ul>	trl + V trl + C
. (	Consider the range of cells	given as (A3:0	C4) in a spreadsheet. Which	of the following cells are
	included in this range?	RUP	1 STREET NEWS	A
	(1) A3 and C4 only		(2) A3, B3 and C3 only	
(	(3) A3, A4, C3 and C4 on	ilyi	(4) A3, B3, C3, A4, B4 a	nd C4 only
. (	Consider the following spre	adsheet segmen	t with the formula $=B2 * B$ \$	5 written into cell C2:
	r Library Member	AName	Sales (Rs) Commission (Rs)	Student Name
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	11511 3	B. Sivarajah	60000	60 00 \$ x 15
	4	No. C gold	1000	Hemet -
	5	Percentage:	0.1	
	6	1 22 23.	2003	
(	What would be displayed i (1) 0 (2) 50	000	Reserved Date	50000
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	following key combinations (1) Ctrl+M (2) C Which of the following fee	s can be used t trl+N atures of electr	for this purpose? (3) Shift+B (4) Solution	Shift+V in be used to change the
	following key combinations (1) Ctrl+M (2) C Which of the following fer content arrangement of a s	s can be used to trl+N atures of electric lide from Arra.	for this purpose? (3) Shift+B (4) Solution (4) Solution	Shift+V in be used to change the
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Book_ID	Title	Reserved	
B0001	Effective Writing	TRUE	
B0002	Classic Short Stories	TRUE	
B0003	Poem Writing	· FALSE	
B0004	Vocal Theory	TRUE	
able: Student (( not.)	Contains details of all stude	ents in school and whet	her each student is a library i
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
able: Reservatio	on (Contains details about	180 - 11 - 11 - 11 - 11 - 11 - 11 - 11 -	ents.)
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1002	23/04/2019	B0001 B0004	
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- 5 -OL/2019/80/E-I, II 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 007104 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) <dl>, (3) , (4) ,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) <br>br>, <b>, <u>, (4) (i>, <b>, , <em> (3) , , <u>, <em> 32. Which of the following is the correct posture to use when using a computer? (1)(2)(3)(4)33. How many bits per pixel (bpp) are required to represent 32 colours? 32 (3) 6(1) 4 (2) 5 (4) 734. What would happen to an image if its resolution is decreased? (1) quality and the file size of the image increases x(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?  $\sim$  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  $\frac{250 + (175 - 150)^{2}}{240 + 25^{5}}$ 36. Consider the following pseudo-code segment: BEGIN 175 READ units IF units <=50 THEN amount=units\*1 ELSE IF units>50 AND units <= 150 THEN amount =  $50 + (units - 50) \times 2$ ELSE amount = 250 + (units - 150)\*5ENDIF ENDIF DISPLAY amount END What would be the output if the value 175 is input for the variable units? (2) 250 (3) 300 (4) 375 (1) 175 [see page six

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37. What would be the output if a user inputs the numbers 4, 5, 2, -1 one after the other for the following pseudo-code segment? terminal = -1 $\mathbf{x} = \mathbf{0}$ REPEAT 5 DISPLAY "Enter number" GET num 4 IF num>x THEN x=num A 5 ENDIF UNTIL num=terminal DISPLAY x (3) 4 (4) 5 (1) -1(2) 0 **38.** Consider the following statements regarding *computer programs*: A - Variables can contain different values at different times. × B - Reserved words of a programming language can be used as variable names in that language. Which of the following is true with respect to the above? (1) Only A is correct. (2) Only B is correct. (4) Both A and B are incorrect. (3) Both A and B are correct. **39.** Consider the following pseudo-code: 50 30 70 READ a, b, c value = 0IF (a>b) THEN IF (a>c) THEN value = a ELSE value = c 70ENDIF ENDIF **DISPLAY** value If the values input for the variables a, b and c are 50, 30 and 70 respectively, what would be the displayed output? (3) 50 (4) 70 (2) 30 (1) 0If 0 and 1 respectively are given as inputs for X in the following logic circuit, what would be 40) the two respective outputs at Y? (A, x) +(B.x) А ŧ X 0 B X (1)  $A, \overline{B}$ (3)  $B, \overline{A}$ (4) B, A(2) A, B \* \* [see page seven

## ICT විෂයට අදාළ සියලූම ඉගෙනුම් උපකාරක එකම තැනකින් ICT notes.org + VLC

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