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All Rights	Reserved]			
	ම ලංකා විතාන ලෙකාටිතරමන්තුව ශු ලංකා විග ම හාන්තානයේ 1 ඒ ක්රීදර් නීතාකාන්තතෝ ව Department of Examinations, Sri La ම ලංකා විමාහ අදුපාර්ත මින්තුව ශු ලංකා විශ ම හාන්තානයි, 1 ඒ දැනී නීතාකාන්තතෝ h Department Of Examinations, Sri La	මා අදහා කරේත්තුව ශි ලංකා විනාශ අදහ බාහෘ විද්යා ලංකා අථිවිධාරීයෙන් inka Degrephic of Examinations හා අදහම් කර්ගේ කිරීම ශියාය Department of Examin nka Department of Examinations.	လဲလစ်ချားကို ရှိလက် ခရာရာ စင်တပ် နှင့်ငြားပြီးသီ ဆီဆီသံဝါ းနှံ ၂ ရှိကြီးရာနေ့ Department of En နေရာနောက်ဖြစ်ဆိုက်ပြီးကို လူသင် nationsy Sri Lanka ? န Sri Lanka Department of En	
ſ	අධායන පොදු ස	හතික පතු (සාමානා	පෙල) විභාගය,	2010 දෙසැම්බර්
		ராதரப் பத்திர (சாதூ		
		of Education (Ord.		n, December 2010
		ත්නිවේදන තාක්ෂණය		ැය තුනයි
5		ாடல் தொழினுட்பவி (வாரைவ் கைப்பை Teal		<i>pன்று மணித்தியால</i> ம்
L		Communication Tech		hree hours
No	te: (i) Answer all ques (ii) In each of the ques as correct or m	estions 1 to 40, pick on ost appropriate.	e of the alternatives	(1), (2), (3), (4) which you consider
				oice in the answer sheet provided. heet. Follow them carefully.
the Whi	vacuum tubes were repla (A) of the com ich of the following term) capability	puters reduced."		uently replaced by micro processors, (4) efficiency
Wh	(\underline{B}) is processed into ich of the following pair 1) Information, data	s of terms is appropriat	e for (B) and (C) ,	respectively? ions (4) Instructions, information
Α	nsider the following com - Keyboard ich of the above could l	B - Scanner	C - Printer	D - Speaker
				y (4) All A, B, C and D
Α	nsider the following state - Random Access Merr	ory (RAM) is a volatile	e memory.	
	 Hard disk is an auxil A floppy disk can st 		monact dick (CD)	
	ich of the above is/are of		Simpact uisk (CD).	
Ŭ,	i) A only3) A and B only	(2) C only(4) B and C only		
5. Ider	ntify A, B and C from	Figure 1.		
		B = PS/2 port,		A B
	 A = power socket, A = power socket, 			
(4	4) $A = parallel port,$	B = serial port,	C = USB port	
6. 2GI	B of memory is equivale	ent to		
	1) 2048 KB.	(2) 2^{11} MB.		
(3	3) 2^{10} MB.	(4) 1024 MB.		
	e octal equivalent of bin	Contract and an and a second sec		
	1) 21.	(2) 31. (4) 41	*	
	3) 37.	(4) 41.		
	tich of the following is t 1) 1001100,	he largest? (2) 1001010,		
	3) 1010100_2	(4) 1100000 ₂		Figure 1
-) 	-,2	2		,

.

	character 'A'?	- 2	and the second se	s the equivalent ASCII code for
	(1) 1000001 ₂	(2) 1000010 ₂	(3) 1000000 ₂	(4) 1000100 ₂
10.		andom Access Memory (R		sing the keyboard. This number ry form. The number of students
	(1) 100010 ₂	(2) 100110 ₂	(3) 100111 ₂	(4) 100011 ₂
11.	the values of A and . (1) 0 and 0	(2) 1 and 0	<i>A</i> ● <i>B</i> ●	
ALCON LINE	(3) 0 and 1	(4) 1 and 1		Figure 2
12.		ations correctly represents by OR		
13.	C - Controlling per D - Providing facili	against viruses of files and directories (f ipheral devices such as d ties for graphic design		*
	Which of the above a (1) A and B only	are tasks of an Operating (2) B and C onl		ly (4) All A, B, C and D
14.	A - It allows to for B - It allows to dr	g statements about word mat characters into differ aw shapes and diagrams it digital video and audio	ent sizes and colours. in a document.	
ing.	Which of the above i (1) A only	s/are correct? (2) Å and B onl	ly (3) All A, B and C	C (4) None of them
15.	 A - It can replace a document. B - It can justify t 	ext along the right margin	word 'Ceylon' with the two	words 'Sri Lanka' in an existing
		age numbers only at the l	bottom of a document.	
	Which of the above : (1) A only	(2) B only	(3) A and B only	(4) All A, B and C
16.	Consider the followin A - E\$5\$	B - \$E\$5	C - \$5E\$ Il addresses in a spreadshee	D - E\$5
	(1) B only	(2) A and C on	í.	(4) None of them
17.	Intersection of a row (1) worksheet.	and a column of a sprea (2) label.	adshect is known as a (3) cell.	(4) formula.
18.	=\$B\$2+C2 and it is convolution would be the output? (1) 9	(2) 10	at D2 •	(=\$#\$2+C2
	(3) 11	(4) 12		6 <u>11</u> • 5
			(REFEAT)	

012/2010//8051618118 19. Imagine that you are preparing a presentation about Sri Lanka. Which of the following could be included in your presentation using presentation software? A - A map of Sri Lanka B - An audio clip of the National Anthem C - A hyperlink directing users to www.gov.lk (1) A and B only (2) B and C only (3) All A, B and C (4) None of them 20. A database includes a table that contains data about students in a school. Data relating to one student in the table is a (1) field, (2) record. (3) form. (4) query. 21. Which of the following can be used as a primary key of a database table in storing data about students? (1) Date of birth (2) Surname (4) Student admission number (3) Class 22. Consider the following statements about relational databases: A - A relationship is an association between two or more databases. B - The types of relationships in a relational database include one-to-one, one-to-many and many-to-many. C - A relational database can consist of multiple tables. Which of the above is/are correct? 3) B and C only (4) All A, B and C (1) A only (2) C only • Answer the questions No. 23 to 25 using the flowchart in Figure 4. 23. What are the outputs of the flowchart, if the current temperature START is 28 °C, 27 °C, and 26 °C, respectively? (1) Cold, Cold, Cold (2) Hot, Cold, Cold Set required (3) Hot, Hot, Cold temperature (R) to 26 °C (4) Hot, Hot, Hot 24. Which of the following control structures are required to convert Read current temperature (C) the flowchart into a computer program? A - If-Then construct B - If-Then-Else construct C - For loop D - Do-While loop (2) B only (1) A only No Display 'Cold' Is C > R(3) 'A and C only (4) B and D only Yes 25. Which of the following data types is suitable for the variables C and R in the above flowchart? Display 'Hot' (1) String (2) Real (3) Boolean (4) Currency 26. Which of the following statements is incorrect regarding a END variable used in a computer program? (1) A variable has a name (identifier). Figure 4 (2) A variable refers to one or more memory locations. (3) A variable has a data type. (4) The value of a variable remains unchanged. 27. Which of the following represents the correct order of precedence of the arithmetic operators from left to right? (2) +, *, - (3) *, +, / (1) +, *, = (4) *, /, +

[See page four

	Begin
	Input numberOne 9
	Input numberTwo 🤤
	Result = numberOne / numberTwo
	Output Result 5
	Output numberTwo
	Output numberOne
	Which of the following is a possible output of the above pseudo code? (1) 4, 12, 3 (2) 5, 2, 10 (3) 5, 10, 2
	 Which of the following is the correct sequence of activities from left to right in developing an information system using the System Development Life Cycle (SDLC)? (1) Feasibility Study → System Design → System Analysis → System Implementation (2) System Analysis → System Implementation → System Design → Feasibility Study (3) Feasibility Study → System Design → System Implementation → System Analysis (4) Feasibility Study → System Analysis → System Implementation
_	 Which of the following is not suitable for computerization? (1) Student admissions in a school (2) School library <(3), Marking essay type answers in an examination (4) Computing student averages and grades after marking of papers
·7	 Consider the following activities: A - Interviewing the teacher-in-charge of the library. B - Studying a magazine article (document) that describes the history of the library and how it was established 20 years ago. C - Observing how the library is being used by students. Which of the above can be used for gathering requirements in developing a library management system for
	a school? (1) A only (2) C only (3) A and C only (4) All A, B and C
32. (Identify the most appropriate statement relating to the Internet and the World Wide Web (WWW). (1) The Internet is a service of the WWW. (2) There is no relationship between the Internet and the WWW. (3) The Internet and the WWW are the same. (4) The WWW is a service of the Internet.
3.	Which of the following is essential in establishing a session for chatting, video chatting and video conferencing?(1) A web cam(2) E-mail address(3) Connection to the Internet(4) A domain name
4.	Consider the following: A - Adding echo B - Changing the speed of audio track C - Editing video clips Which of the above effects are available in a specialized audio/sound editing tool used in multimedia applications? (1) A and B only (2) A and C only (3) B and C only (4) All A, B and C
35.	Consider the following: A - web browser B - web server C - IP address D - website content Which of the above are essential in hosting a website?
	(1) A, B and C only(2) B, C and D only(3) A, B and D only(4) All A, B, C and D

	/2U1U/OU+E+1, N	
36.		ound colour as yellow? 2) <background>yellow</background> 4) <body style="background-color:yellow"></body>
37.		nk? 2) <a>http://DOEweb.com 4) DOEweb
38 .		2) Inserts a page break.4) Inserts a section break.
19 .	 Consider the following statements regarding malware: A - Trojan Horses at first glance will appear to be useful or run on the computer. B - A worm can replicate itself over a network and here a statement of the statem	as the capability to travel without any human action.
	 C - A computer virus attaches itself to a program or fil leaving infections as it travels. Which of the above is/are correct? (1) A only (2) B only 	3) A and B only (4) All A, B and C
40.	Consider the following: A - A person using a commercial software without the B - A person using another person's login details. C - A business reveals information about customers to	he license.
	 D - A person creating viruses and spreading to other. Which of the above can be considered as unchical? (1) A and B only d' 	
	**	
(
		9.
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යලු ම හිමිකම් ඇට්රිණ] ptලට ටනිට්ටුෆිකොඩුකෙඩානු]					
IT Rights Reserved]	х х				
(g com Danc, ແລະກ່ຽວເອີສຊາອິ ຊີ com Dano occubenced of 6 con இலன்னை பிட்சிக்கத் திணைக்களம் இலாக்கோ Comparison Department of Examinations, Sn Lanka Department of Ex g com Dana occubenced of 8 com Dana occubenced (2000) இலன்கை பிட்குத் திணைக்களம் இலன். Department Department of Examinations, Sri Lanka Department of Examinations, Sri Lanka Department, Status,	Pours accolored app 6 analytic accolored app 6 anal From architectory and app 6 analytic accolored app 6 and a second accolored accolor				
අධායන පොදු සහනික පනු (අ	සාමාතෘ පෙළ) විභාගය, 2010 දෙසැම්බර්				
கல்விப் பொதுத் தராதரப் பத்திர (சாதூரண தர)ப் பரீட்சை, 2010 டிசெய்பர் General Certificate of Education (Ord. Level) Examination, December 2010					
තොරතුරු හා සත්ජ					
	டல் தொழினுட்பவியல் I, II				
	mmunication Technology I, II				
	ommunication Technology U				
	cluding first question and four other questions. s and each of the other questions carries 10 marks.				
I. (i) Write two advantages of removable stora					
(ii) Classify the following scenarios as either(a) Watching a TV program	Simplex, Half-Duplex, or Duplex data transmission modes. (b) A telephone conversation				
found that the amount mentioned in the bill	Imagine that you have purchased a few items from a shop. The cashier has issued the bill. You have found that the amount mentioned in the bill is incorrect and you have informed the cashier. By considering yourself as a system, identify the input, process, and the output in the above scenario.				
	Write two advantages of using Information and Communication Technology in processing and releasing G.C.E. (Ordinary Level) Examination results.				
(v) Convert the binary number 11001110 inte	o the hexadecimal equivalent.				
(vi) Convert the number of bytes in 1 KB in	to the octal equivalent.				
(vii) Prove the following De Morgan's laws u (a) $(A \cdot B)' = A' + B'$	862				
	vailable in a graphic software. Identify the corresponding tasks				
Tool Box	Animation				
Layers	Gradient Fill				
Key Frame	Draw and Edit Objects				
Color Mixer	Create, Place, and Modify Text and Graphics				
Table 1 : Tools	Table 2 : Tasks				
(ix) A father gave Rs. 100 to his son and ask it to his mother. Provide a suitable algor	ted him to buy a loaf of bread from a nearby shop and give ithm in pseudo code for this task.				
	veloping an information system for a school library, using the Briefly describe the first two phases of the SDLC used in				
 2. The library of Vidyaloka Vidyala has many be two books at a time for two weeks. (i) Write two items of data the library shou 	ooks. Some books have multiple copies. Students can borrow				
	ded by the library staff when a student borrows a book.				
	information using the library system. Provide one example				
	nual at present, provide two advantages of using ICT for				

•

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3. The sample spreadsheet in Figure 5 shows the marks obtained by four students Amila, Kapila, Fathima and Raj for four subjects Commerce, English, Mathematics and Science.

•			Sector Darrows			
		A	1 Karila			
		Amila	Kapıla	Fathima	Raj	Average marks per subject
	Commerce	85	75	75	80	
Subject	<u>English</u>	75	75	70	70	
	Mathematics	65	70	85	65	
	Science	70	65	75	60	
10	Total Marks per student					
152		And the	· ·	•		

- (i) Write the required formula in cell C8 without using functions to calculate the total marks obtained by Amila.
- (ii) If the formula entered in cell C8 to calculate Amila's total marks is copied to calculate Kapila's total marks in D8, how would the formula appear in D8?
- (iii) Write the formula to calculate the total marks received by Raj using the function "SUM" in cell F8.
- (iv) Using the functions available in spreadsheet software to calculate average, write the formula to calculate the average marks of students for Commerce in cell G4.
- (v) The class teacher wants to compare the performance of two students in four subjects in a single chart. Provide two appropriate chart types available in spreadsheet software for this purpose.
- 4. (i) In a cycle race, the participating cyclists are required to qualify from the preliminary stage into the final stage, by passing a medical test and then by completing ten rounds in a circular track. Those who do not pass the medical test will not be allowed to attempt ten rounds in the track. Those who complete ten rounds in the track are eligible to participate in the final stage. Others who get tired and are unable to complete ten rounds in the track are eliminated from the contest.

Write down respectively the appropriate terms derived from the above scenario to fill in the blanks in (a), (b), (c), (d), (e) and (f) in the flowchart in Figure 6.



