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ஞென்வ தரம் Grade	Information and Communication வினாத்தா	sit) [ສາເພລີ ອາເອລີ ອາເອລ Time ອາເອລີ ອາ

Important

- Provide answers to all the Questions.
- Provide answers to question number 01 to 40 by selecting the correct answer from the given choices, (1, 2, 3 and 4)
- Cross out (*) the correct circle on the given answers script relevant to the questions.
- (01) Which answer includes only optical media devices out of the following secondary storage devices?
 - 1.CD, Digital Multiple Disc (DVD), Secure Digital Card (SD Card). 2.CDs, DVDs, Blu-ray Discs (BDs).
 - 3.CDs, Blu-ray Discs (BDs), Secure Digital Cards (SD Cards).
 - 4.CDs, DVDs, magnetic tapes

(02) What is the true statement about data transmission medium?

- 1. An example for unguided media is coaxial cables.
- 2. The specialty of the shielded twisted pair cable is the transmission of data by reflection of light.
- 3. The fastest data transmission guided media is optical fiber.
- 4. In a television remote control, data transmit using radio signals.
- (03) What is a false statement regarding Random Access Memory(RAM)?
 - 1. The main function of RAM is to temporarily retain the data and instructions required by the central processing unit.
 - 2. This is located on the computer's motherboard and is also known as main memory.
 - 3. This is volatile memory and is much slower than cache memory.
 - 4. The data and commands required for the basic operation of the computer are stored in this memory.
- (04) The headline of a newspaper was "..... are used in the fishing industry to identify several places where fish populations are abundant." What is the most appropriate word for the space shown here?
 - 1. Closed Circuit TV camera system

2. Signal lamps

3. Sensors

4. Identity code system

- (05) During a quiz programme, Wikum had the opportunity to choose features of distance education from the following
 - A. Being able to carry out their learning activities from school according to a daily schedule.
 - B. Ability to use digital libraries.
 - C. Inability to contact an online teacher.
 - D. Ability to access counseling services.
 - E. Ability to upload answers for assignments online

If you are Vikum of the above program, what are the correct characteristics of the distance education you choose?

-01-

1. A, B and C.

2. B, C and D

3. A, B and D

4. B, D and E

- (06) Which of the following statement is false regarding computer ports?
 - 1. The HDMI port is used to connect the computer screen to the multimedia projector.
 - 2. The serial port is used to connect the modem to the computer.
 - 3. Today most printers connect to the computer using USB.
 - 4. VGA port is used to connect both audio and video output devices to a computer.
- (07) According to the diagram below, what is the mode of data transmission it displays and select one example for the selected mode.



- 1. Simplex, Watching television
- 3. Half duplex, telephone conversations
- 2. Full duplex, Walkie Talkie

4. Full duplex, telephone conversations

(08) What is the correct answer given when 205_{10} is converted to a hexadecimal and an octal number

respectively?

1. 1213_{16} and 255_{8}

3. BD_{16} and 205_8

4. CD_{16} and 315_{8}

2. DC₁₆ and 513₈

(09) If ASCII value of the letter B is 66₁₀ and ASCII value of letter b is 98₁₀, what is the binary representation of the letters G and g according to the ASCII table?

1. 1000111 and 1100111 3. 1010111 and 1001010 2. 1100111 and 1000111
 4. 1000011 and 1100010

and the management has blocked

(10) Select correct statements out of the following.

- A. $5B_{16}$ is equivalent to 1011011
- B. 110111001_2 is equivalent to 661_8 .
- C. 235_{10} is equivalent to EB₁₆.

1.	Α	and B.	

3. A and C

2. B and C.
 4. AllA, B, C

(11) Consider the following statements.

- A. Operating system software can be divided into two parts as applications and system software.
- B. Antivirus software and disk formatting software are application software.

-02-

C. Random access memory is handled by the operating system.

Which of the above statements are correct?

1. Aonly

2. Conly

3. A and B only

4. B and Conly

(12) Consider the following statements regarding operating systems,

- A. Linux-based operating systems do not require an additional utility program for partitioning.
- B. Fragmentation occurs when parts of a file are saved in different places on the hard disk.
- C. Partitioning of a computer should be done after installing an operating system

Which of the above statements are correct?(1) A and B(2) B and C(3) A and C(4) All A, B, C

* Considering the given spreadsheet, answer to Questions from 13 to 15,

(13) What is the formula to be written in cell C2 to find the circumference for circle A in this spreadsheet? (Circumference of a circle = 2 * pi * r) Note that the circumference should also be calculated in circles B and C using this formula.

	A	B	Ç	D
1	Circle	radius	Circumferernce	
2	Α	4	25.14	
3	В	8	50.29	9
4	C	16	100.57	Sandar - San ana
5	Minimum value	4	25.14	
6	et worker to should		e visit in State i	
7	pi	3.142857	1	
8	A SPECIAL STREET	and the second		

- 1. =2 * B7 * B22. =2 * B\$7 * B23. =2 * \$B7 * B24. =2 * B7 * B\$2
- (14) If the circumference obtained for circle A above was copied to cell C4 to obtain the circumference of circle C, what would be its formula?

1. $=2 * B7 * B4$	2.	=2*\$B7*B4
3. $=2 * B7 * B$ \$4	4.	=2 * B\$7 * B4

(15) Which of the following formulas can be used in cell C5 to find the minimum circumference of the spreadsheet above?

A=MIN(C2:C4) B=MIN(C2:C3,C4) C=MIN(C2,C3,C4)

1. A and B only

3. B and C only

2. A and C only 4. All A, B and C

(16) Which answer contain correct shortcut keys that can be used to perform the following functions in a computer?

A To open the document	CTRL + HOME
^(B) To move the cursor to the beginning of	@ CTRL + P
© To replace the word contained in the	R CTRL + O

D To print the document.

(1) $\mathbb{A} \rightarrow \mathbb{P}$, $\mathbb{B} \rightarrow \mathbb{R}$, $\mathbb{C} \rightarrow \mathbb{S}$, $\mathbb{D} \rightarrow \mathbb{Q}$ (2) $\mathbb{A} \rightarrow \mathbb{R}$, $\mathbb{B} \rightarrow \mathbb{S}$, $\mathbb{C} \rightarrow \mathbb{Q}$, $\mathbb{D} \rightarrow \mathbb{P}$ (3) $\mathbb{A} \rightarrow \mathbb{R}$, $\mathbb{B} \rightarrow \mathbb{P}$, $\mathbb{C} \rightarrow \mathbb{S}$, $\mathbb{D} \rightarrow \mathbb{Q}$ (4) $\mathbb{A} \rightarrow \mathbb{S}$, $\mathbb{B} \rightarrow \mathbb{P}$, $\mathbb{C} \rightarrow \mathbb{R}$, $\mathbb{D} \rightarrow \mathbb{Q}$

(S) CTRL +H

Grade 11 - ICT - I - Western Province

-03-

(17) Below are some slides in an e-presentation prepared by Nimali to welcome new students.



In which answer contain correct icons for above slide views?

(1) (▲→②,	B→ ④, C→ ③, D→ ④
(2) (▲→②),	B→4, C→3, D→1
(3) (Ѧ)→④,	B→2, C→3, D→1
(4) (Å→③ ,	₿→②, ⓒ→①, Ď→④



(18) If the following are the features contained in a quality e-presentation, which of the following statements are true?

P	The font size of a slide must be 15 points or less
Q	When inserting motion pictures and videos, only one of them should be included per slide.
R	It is advisable to have 6-9 lines of text in each sentence.
S	The goal of the audience must be targeted.

- (1) P and Q only. (2) Q and R only. (3)Q, R and S only (4) P, R and S only
- Questions from 19 to 22 are based on some tables of the database of ABC Company. These tables are used to store data on projects to which employees of the organization are attached.

Employee_no	Employee_name	Address	Tel no
E001	Nimantha Silva	29, Galle Road, Panadura	0715689231
E002	Iranganie Jayawardena	2/A, Tissa Aveneu, Mt. Lavinia	0772892525
E003	Shenali Perera	92B, Vijaya Road, Dehiwela	0772593519
E004	Ghanesh Silvaraja	256A, Terrance Housing Scheme, Wellawatta.	0769812651
E005	Isha Mohomed	36/12, Temple Road, Maradana	0785912463

Employee table (includes employee data.)

Project table (includes details about projects implement within the company)		Employee_assign table (include details about employees assign to projects)			
		Employee_no	Project no	Start date	End date
Project no	Project name	E001	P003	2020/01/10	2020/07/25
		E003	P001	2020/01/11	A CONTRACTOR
P001	Crypto	E005	P004	2020/01/11	2020/06/10
P002	Felix	E002	P003	2020/01/12	2020/07/25
P003	bitcoin	E001	P002	2020/02/10	2020/01/20
P004	trulia	E005	P001	2020/02/10	in the second

(19) How many fields are in the employee table?

(2) 3

(1) 2

-04-

(3) 4

^{(4) 5} Grade 11 - ICT - I - Western Province

- (20) What is an example for a foreign key in the database?
 - (1) Employee_no in Employee table
 - (2)Employee no in Employee_assign table
 - (3) Start_date in Employee_assign table
 - (4) Project_no in Project table
- (21) Who works in the project "Felix" ?
 - (1) Isha Mohomed

- (2) Iranganie Jayawardena
- (3) Shenali Perera (4) Nimantha Silva
- (22) After recruiting a new employee to the company, he will be attached to an existing project. What are the tables (s) that need to be updated for this purpose??
 - 1. Employee table and Project table
 - 2. Project table and Employee_assign table
 - 3. Employee table and Employee_assign table
 - 4. Employee table, Project table and Employee_assign table

(23) Which of the following is correct regarding computer based information systems?

- A. Computer-based information systems never cause errors.
- B. These systems take very little time to process information.
- C. Data on a computer-based information system is less secure than on a manual system due to unauthorized access, computer viruses, etc.
- (1) A only(2) B only(3) A and B only(4) All A, B and C
- (24) Which of the following statement is false regarding software system testing methods?
 - (1) The system test, tests the new system's interaction with the operating system.
 - (2) During unit testing, system components are tested separately, and this is the first test performed.
 - (3) In the overall test, tests whether desired output can be obtained by giving required inputs.
 - (4) In the acceptance test users are allow to use the new system.
- (25) The HTML source code of web page shown in Figure 1, is shown in Figure 2, without the tags labeled by 1 to 3

Quarantine STOP COVID 19	<pre><center><h2><①> Quarantine<!--①--> STOP <(2)> <③> COVID - 19 <!--(3)--></h2></center></pre>
Figure 1	Figure 2

In which choice includes the correct order of tags required for labels (1)- (3) shown in figure 2?

- 1. U, B, S
 2. EM, P, S

 3. EM, BR, S
 4. I, BR, STRONG
- (26)

How many attributes are found in the above HTML code segment related to Table tag? 1. 5 2.7 3.14 4.15

-05-

- The IT teacher has decided to send the assignments to his students via e-mail during the holidays and he intends to send a copy to the teacher in charge of the section and another copy to the principal so that the children cannot see it. Answer questions 27 to 29 accordingly.
- (27) Where should the e-mail address of the teacher in charge of the section be mentioned in the e-mail message?

(1) To	(2) Cc	(3) Bcc	(4) Subject
(28) Where should the e-	mail address of the prin	cipal be mentioned	in the e-mail message?
(1)To	(2) Cc	(3)Bcc	(4) Subject.
(29) What is used to atta	ch assignments prepared	d as a Pdf File with	the e-mail?
(1)Subject	(2) Attachment	(3)Draft	(4) Sent

(30) Consider the following statements about the diagram on the right.

- A. Figure 1 is created from vector media and Figure 2 is created from raster media.
- B. Figure 1 is created from raster media and Figure 2 is created from vector media.
- C. You can use Corel Draw software to create image 1 and GIMP software to create image 2.
- D. You can use GIMP software to create image 1 and Corel Draw software to create image 2.

Which of the above statements are true?

- (1) A and B only
- (3) A and C only

2 6,00 1 0.00

(2) B and C only(4) B and D only

(31) Below you see a Transport toolbar of an audio editing software.



Select the choice in which, labels A, B and C are named in correct order.

(1) Play, Stop, Record.

(3) Stop, Select, Crop.

(32) Basic elements of a digital graphic are.

A. Pixels.

B. Resolution.

(1) A and B only(3) A, B and C only.

(2)Select, Crop, Stop.(4)Record, Play, Stop

C. size D. colour

(2) B , C and D only.(4) AllA, B, C and D.

(33) What is the answer that contains only the actions that can be taken for logical security? 1. Software Firewall, Password, Data Backup

- 2. Uninterruptible Power Supply (UPS), Password, Surge Protector
- 3. Data Backup, Hardware Firewall, Uninterruptible Power Supply (UPS)
- 4. Surge Protector, Closed Circuit Television (CCTV), Hardware Firewall

-06-

- (34) Many health problems can be avoided by sitting in the correct position while using the computer. Which choice shows the correct posture?
 - 1. Keep the computer screen straight to the eye.
 - 2. The distance between the computer screen and the eyes must be between 45-70cm
 - 3. The legs should be parallel to the floor.
 - 4. The keyboard should be held above the elbow.
- (35) There are various threats and attacks to a computer system. The phishing attack is one such effect. What is a Phishing Attack?
 - 1. Is an unauthorized email.
 - 2. Is obtaining bank accounts or electronic accounts information by deceiving the user.
 - 3. It is a malicious software that works automatically.
 - 4. Is linking users to other web pages by deceiving the user.
- (36) What are the statements that include the correct rules to be followed in naming identifiers, in the Pascal programming language?
 - A The identifier name must start with a letter.
 - B There can be no empty spaces between the characters of the name.
 - C Reserved words cannot be used as identifiers.
 - D Only letters, numbers, and underscores can be used as valid characters.

1.A and B only.	2. B and C only.
3.A, B and C only.	4. A, B, C and D.

- (37) What is the output of the given pseudo code?
 - 1. 112358
 - 2.1235
 - 3. 1235813
 - 4. 12358

begin

$$a = 0$$

 $b = 1$
count = 1
while count<>6
count = count + 1
 $c = a + b$
 $a = b$
 $b = c$
display b
end while
end



- (40) What is the output of the following logic circuit
 - 1. A+B+C+D



-08-

All Rights Reserved බස්නාහිර පළාත් අධ්යාපත දෙපාර්තමේන්තුව බස්නාහිර පළාත් ගිගම ගාසයාණාස් සමාබාදී, නීතාණාස්සභෝග දිගම ගාසයාණා Department of Education - Western Province Departmentor E බස්නාහිර පළාත් අධ්යාපත දෙපාර්තමේන්තුව බස්නාහිර පළාත්	බස්නාහිර පළාත් අධානපන දෙපාර්තමේන්තුව admit and a solution දෙපාර්තමේත්වේ admit a contraction and a solution and
Buesmod Gegin Reunicol (Genovaçia) (Genovaçia) Qual unariante a dolla gionamissemi Qual colo unariante Department of Education - Western Province Department of E Jedensid Gegin Reunical Colomological Calavistic Gegin Ruek илалять adollgi, gionamissemio Ruek илалят Department of Education - Western Province Department of E	மேல மாகாணக கலவித திணைக்களம Department of Education - Western Province
	වර්ෂ අවසාන ඇගයීම ஆண்டிறுதி மதிப்பீடு - 2020 Year End Evaluation

First question is compulsory. Select 2 questions from part I, and select 2 questions from part II and answer 5 questions only.

1. (i)(a) To find out more details about a product, Kamani scanned the QR code of the product printed in a certain magazine with the help of her mobile phone camera and inserts it into the QR code decoding application software installed on her mobile phone. Then the website relevant to the product was displayed. Indicate the inputs, processes, and outputs related to this process separately. (ii)(a) Convert the hexadecimal number $8AE_{16}$ to an octal number. Write down the steps used in your calculation (b) Write the BCD value relevant to the decimal number 258_{10} . Write down the steps used in your calculation (iii) А в -Q (a) Write the Boolean expression for the logic circuit above. (b) What is the output when 1 is given as the input for A and B? (iv) Some of the computer ports are labeled $as \rightarrow ?$? (A)В \bigcirc **D (E)**

Write the label corresponding to each of the following functions in front of the relevant task number.

<u>Task list :</u>

- ① Connecting a digital camera to a computer.
- ② Connecting the modem to the computer.
- 3 Connecting the computer to the Network switch.
- Connecting a Multimedia Projector to a Modern Laptop.

(v) In the given table below, the functions performed by an operating system are shown in

column.	
Match the item some two columns a	nd write them on the advant pair labels.
A. Device Management	P. Protects the computer system from malware
B. File Management	Q. Helps to rename files and folders
C. Security Management	R. Allocates memory required for various processes in the computer
D. Memory Management	S. Controls various peripheral devices

column and the services provided under each of those functions are shown in column.

(vi) Some of the tools found in word processing software are labelled below.

Fill in the blanks by selecting the appropriate label for the tool that can be used to perform

P		
e	ach	of the following tasks:
	(a)	The tool can be used to simultaneously change the word line typed as microsoft word to Microsoft Word
	(b)	The tool can be used to edit newspaper columns in creating of
		newspapers, magazines, etc.
	(c)	The tool can be used to change the space between two typed paragraphs
	(d)	The tool can be used to add a border to a page.
(VII);		ct the most appropriate word from the two words given in brackets to fill in the
ł	olan	ks in the following sentences ? ? . In your answer, write only the statement
		label
а	and t	he word relavent to the space).
?	(B	luegriffon / Dream weaver)is an open source web editing
	SO	ftware
?	If	the content of a website is constantly changing, it is called as a

- (static / dynamic) website
- ? Maintenance related to the web server and database are maintained by(Website Administrator / Website Editor)
- ? -To publish a website on the Internet a unique (web hosting service/ domain name) should be purchased.

(viii) Indicate whether the following statements about digital graphics are true or false in front of the relevant statement label

A. A pixel is the basic measuring unit of a digital graphics, and the colours used in a graphic are represented by the number of bits per pixel .

B. A raster graphic is made up with an array of pixels in different colors .

The measuring unit of the physical dimension of a digital graphics is called Image 2 resolution.

D GIF and PNG are some of the most lossy file formats used in graphical 3 compression .

(ix) Consider the following statements regarding problems in the use of information and

communication technology

A malware that has the ability to execute automatically, keeping links with other networks.

An album of songs written by an individual, is bought and copied to digital discs and sold to earn money.

A Pain comes from shoulders to the fingers and then it is swelling and hardness.

Uses various tricks to mislead people, release fake information and photos about program print Dec Order (input, Output) them on the

internetQ count : = integer ;

Select the word that matches the statements given above to from the list below, and write it in front of the relevant number.

The list of words_{Fol} Qyber=Qrjme, Fraud, Social media websites, Repetitive Strain Injury,

> wr**iterpeT F**unnel Syndrome, Plagiarism, Computer worms, Bots] End

(x) Given below is a list of Pascal programs for displaying consecutive numbers from 1 to 10

in descending order. Write the correct words for the labels shown as ? ,? ,? and ?

2. Answer the following questions

- (i) The Meteorological Department intends to physically protect their computer system. Write two steps they can take.
- (ii) The Sri Lanka Police maintains a computerized database of criminals. Write two possible steps that can be taken for logical security of that database
- (iii) De-skilling is also one of the effects of using ICT. Write two examples.
- (iv) Mention an organization in Sri Lanka that provides cyber security
- (v) Consider the statements labeled from ? to ? and identify the most suitable

term for

each label from the list given below. Write the statement label and the relevant word for

each answer.

? A step that can be taken to create a digital bridge.

? Numbness and pain in the fingers

? Copy another's creative work and presenting it as one's own without the

permission of the owner. Patient number name telephone number When writing an e-mail about Sri Lanka, mentioning Web pages where P0001 Sunil Weerasinghe 0772035480 info

obtained at the end	of the article.
Mohomed Musthafa	0751556977
Malcam Ivan	0715689243
Sujatha Attanayake	0786238146
Jesica Perera	0763569814
	Malcam Ivan Sujatha Attanayake

	20000		0.00000	/ .
hysician_no	Deceiving user	rs over the infernet to ara Gynecology and	telephone number	charges per patien
D1001	usil Wijesunda	ara Gynecology and	0715264259	1100
?	A method to sa	fely dispose of electro	nic waste.	
D1002	Gamini	Dental	0772398654	1000
List	: Wijethungasm	n, Repetitive Stress In	jury, Hacking, Citing	, Recycling, Dig
D190 2,	Wijedasa	Ophthalmologist	0776974238	1200
Carp	el TannathSystad	lrome, Phishing, Imp	oving Digital Literad	cy, Referencing]
D1004	Suneetha	Surgeon	0716512398	1300
3. Given	n b Bhjawaksba sor	ne parts of the databas	se tables related in a p	orivate hospital w
regard to	Famil Jameel	Surgeon	0768912356	1400
hospi	ital manageme	nt system		
patient ta	ble (contains p	atient details)		
patient	number	physician_no		late
P00	002	D1003	2020)/02/10
P00	003	D1002	2020)/02/11
POO	001	D1003	2020)/02/12

P0004 D1001 2020/02/12 P0001 D1002 2020/02/13 P0002 D1005 2020/02/14

physician table (contains details of physicians)

reservation table (contains details of patient appointments by physicians)

/1 .	http://www.elearning.lk/IC1/Ci	rade10/lesson1.pdf The elearning.lk
		is the top level domain
	name is th	-
	10 11	
B.	is the softw	ware used to access the Internet and
D.	is an example	
	is un example	
C.	Theaddre	ss is used to uniquely identify each
	computer on the Internet.	
D.	The proto	col notifies the message in case of error
E	The	al is used to the perfor files from alignet
E.	1	ol is used to transfer files from client
	computer to another computer	in the internet.
F.		tore mails that are composed to be sent
	but could not be completed, se	ent mail will be store in Sent.
		Come Deserves Leaster LCMD Web
		iform Resource Locator, ICMP, Web
	browser, eLearning, ICT/Gr	adelu, Chrome, FIP, lesson1.pdi)
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5. Wholesale purchases of rice during January and February are calculated using the following spreadsheet.

4	A	8	С	D	E	F	G	н	1	1	K	L	M	N
1		Purchase												
2			January February											
				After the					After the					
				discount		Price after			discount	Price Before	Price after			
				of unit	Price Before	the		Quantity	of unit	the	the			
3	Items	Unit price	Quantity	price	the discount	discount	Profit	(kg)	price	discount	discount	Profit	Total	Total Profit
4	Suwandel	200	500	180	Rs.100,000.00	Rs.90,000.00	Rs.10,000.00	500	170	Rs.100,000.00	Rs.85,000.00	Rs.15,000.00	175,000.00	25,000.0
5	Kuruluthuda	100	500	90	Rs.50,000.00	Rs.45,000.00	Rs.5,000.00	250	85	Rs.25,000.00	Rs.21,250.00	Rs.3,750.00	65,250.00	8,750.0
6	White raw	80	2000	72	Rs.160,000.00	Rs.144,000.00	Rs.16,000.00	1500	68	Rs.120,000.00	Rs.102,000.00	Rs.18,000.00	245,000.00	34,000.0
7	Red raw	70	1500	63	Rs.105,000.00	Rs.94,500.00	Rs.10,500.00	1000	59.5	Rs.70,000.00	Rs.59,500.00	Rs.10,500.00	154,000.00	21,000.0
8	Kiri Samba	100	1500	90	Rs.150,000.00	Rs.135,000.00	Rs.15,000.00	500	85	Rs.50,000.00	Rs.42,500.00	Rs.7,500.00	177,500.00	22,500.0
9	Samba	80	3000	72	Rs.240,000.00	Rs.216,000.00	Rs.24,000.00	2000	68	Rs.150,000.00	Rs.135,000.00	Rs.24,000.00	352,000.00	48,000.0
10	Total					Rs.724,500.00	Rs.80,500.00				Rs.445,250.00	Rs.78,750.00	Rs.1,170,750.00	Rs.159,250.0
11	Maximum Value					Rs.216,000.00	Rs.24,000.00				Rs.136,000.00	Rs.24,000.00	Rs.352,000.00	Rs.48,000.0
12														
13	Dis	scount												
14	January		10%											
15	February		15%											
16														

(i) Write the formula to be inserted in cell F10 as =function1(cell1:cell2), to calculate the

amount spent on total purchases in the month of January.

(ii)(a)Write down the formula that should be included in cell D4 to calculate the unit price of Suwandel after the discount for the month of January.

Unit price after discount of an item in the relevant month = Unit price of the item - Unit price of the item * Discount of the relevant month

(b) If you copied the formula in (ii) (a) above for the white raw rice for the month of January,

write the formula that appears in cell D6

(a)Write down the formula to be included in cell F4 to calculate the price after discount of

suwadel rice in January.

The price of an item in the relevant month after the discount = Unit Price of an item after

the discount * Quantity

(b) Write down the formula should be included in cell G4 to calculate the profit for Suwandel

rice in January.

Profit of an item in the relevant month = Price before the discount of the item -Price after

the discount of the item

(iv) Write down two ways of writing formula to be inserted in cell M4 to calculate the total purchases in January and February.

(v) Write the formula to be included in cell N11 to calculate the maximum profit earned on items in January and February

⁽iii)

6. The following diagram shows the six major steps in the system development lifecycle. Provide

correct answers to the questions asked

- (i) In the above note, write the steps with regard to the ? ,? and ? labels in front of the relevant label
- (ii) Name three things to be noted in written, when the steps of identifying about the new system.
- (iii) Put a tick (\checkmark) for the tasks performed and a cross (\times) for the not performed in step ? of the tasks given below from ?
 - ate or in front of the label of the relevant task in your answer). Ρ
 - Planning of tests Q
 - R Identify the system errors.
 - S Coding the system using a suitable computer language.
 - Т Identification of software architecture
 - Identification of system objectives
 - Preparing Interfaces and database
- (i) Mention two methods of deployment of the system and briefly explain them
- (ii) Mention two differences between the waterfall model and the Iterative Incremental model
- 7. Four candidates from four political parties are contesting for the presidency. After verifying the identity of a voter who is eligible to caste the vote by an official of polling station, the voter can declare his or her preference for only one candidate's relevant number. If the voters finished casting their votes, this task is finished and if it Grade 11 - ICT - II -Western Province



- (i) Write the suitable terms for labels A, B, C, D, E, F, G, H in this flow chart
- $(ii) \ \ {\rm Write \ the \ relevant \ pseudo-code \ for \ the \ flow \ chart.}$
- (iii) It shows that the coding of the Pascal program relevant to this flow chart by using an array in the above task A. So define a suitable array to do that.

සියලු ම හිමිකම් ඇව්රිණි **යුදැය යළිදා, කියන්න, කළ**, All Rights Reserved

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නිස්තාහිර පළාත් අධ්යාපන දෙපාර්තමේන්තුව බස්තාහිර පළාත් ශිසන් යනතාකක්, කර්බින්, නීතානක්තයෝ ගිසන් යනතා Western Province Education Department Western Provin ස්ක්තාහිර පළාත් අධ්යාපන දෙපාර්තමේන්තුව ස්ක්රාහිර පළාත් ශිසන් යනතාකක්, කර්බින්, නීතානක්තයෝ ගිසන් යන්තාහිර පළාත් ශිසන් පරිශ ප්රධාන ප්රධාන ප්රතාන කර්ගාන ක්ෂ්තාහිර පළාත් අධ්යාපන දෙපාර්තමේන්තුව ස්ක්රාහිර පළාත් ශිසන් යනතාකක්, කර්බින්, නීතානක්තයෝ ගිසන් යනතාන Western Province Education Department Western Provi ක්ෂ්තාහිර පළාත් අධ්යාපන දේවානමන්තුව යන්තානි රැසන් මාන්තාන	බස්නාහිර පළාත් අධාාපන දෙපාර්තමේන්තුව மேல் மாகாணக் கல்வித் திணைக்களம் Department of Education - Western Province	පළාත් අධ්‍යාපත දෙපාර්තමේන්තුව බස්නාහිර පළාත් අධ්‍යාපත aramak adudiĝ glomankantu Bodo umaramak adudiĝ Forvince Education Department Westem Province Educat පළාත් අධ්‍යාපන දෙපාර්තමේන්තුව බස්නාහීර පළාත් අධ්‍යාපත aramak adudiĝ glomankantu Bodo umaramak adudiĝ forvince Education Department Westem Province Educat පළාත් අධ්‍යාපන දෙපාර්තමේන්තු බස්නාහීර පළාත් අධ්‍යාත් aramak adudiĝ glomankantu Bodo umaramak adudiĝ rovince Education Department Westem Province Education province Education Department Westem Province Education
	වර්ෂ අවසාන ඇගයීම ஆண்டிறுதி மதிப்பீடு – 2020 Year End Evaluation	
	පිළිතුරු පතුය Marking Scheme	
ஞ்னீவ தரம் Grade 11	ຍັອເລລ Information and umடம் Subject Communication Technology	ுனுக வினாத்தாள் Paper ↓ I,II

Paper 1

Q No	Answer						
1	2	11	2	21	4	31	1
2	3	12	1	22	3	32	4
3	4	13	2	23	2	33	1
4	3	14	4	24	3	34	2
5	4	15	4	25	3	35	2
6	4	16	3	26	2	36	4
7	4	17	2	27	2	37	4
8	4	18	3	28	3	38	4
9	1	19	3	29	2	39	4
10	3	20	2	30	3	40	4

(Marks1 x 40=40)

Paper II

(i)	Input : Q Process:I	(Marks ½) (Marks 1)			
	Output:W	ebsite rele	evant to	the product	(Marks ½).
(ii)	(a) 8 1000	A 1010	E 1110]	(Marks ½)
	100 4	010 2	101 5	$ \begin{array}{c} 110\\ 6 \end{array} $	(Marks ½)
	8AE ₁	$_{6} = 4256_{8}$			

(b) ______ (Marks ¹/₂) 2 5 8 ______ (Marks ¹/₂)

BCD value - 001001011000 (Marks ½)Important: If BCD value is written as 1001011000 no Marks will be allowed.

(iii)	(a) $Q = (\overline{A + B}) \cdot (\overline{A \cdot B})$	(Marks 1)
	(b) 0	(Marks 1)
(iv)	① - A ② - C ③ - B ④ - D	(Marks½ x 4)
(v)	$A \rightarrow S C \rightarrow P$	
	$B \rightarrow Q \qquad D \rightarrow R$	(Marks ¹ / ₂ x 4)
(vi)	(a) - R (c) - P	
	(b) - T $(d) - U$	(Marks ¹ / ₂ x 4)
(vii)	 (A)- Bluegriffon (B) - Dynamic (C) - Website Administrator (D) -Domain name 	
		$(Marks\frac{1}{2} \times 4)$
(V111)	A – True C – False	
	B – True D – False	(Marks ¹ / ₂ x 4)
(ix)	 ①- Bots ②- Fraud ③- Repetitive Stress Injury ④- Cyber crimes 	
		(Marks ¹ / ₂ x 4)
(x)	Q - varR - count	
	(\$) - downto	
	① - count	
		$(Marks\frac{1}{2} \ge 4)$

(Total Marks 20)

2.

 Use of Uninterrupted Power Supply Use of hardware firewalls
 Controlled access through doors
 Use of CCTV Maintain the lab with free from dirt, dust, moisture etc.

(Marks $1 \ge 2 = 2$)

(ii)

Use of passwords. Data Encryption Taking backups. Use of software firewalls

(Marks
$$1 \ge 2 = 2$$
)

(iii)

- Machinery has taken over the industry replacing the talents of people.
- Libraries have been made to close down and jobs in the sector lost due to the electronic books • and magazines.
- Online learning through the distance mode has limited teacher resources. ٠
- Health concerns are easily sorted out from homes itself, cutting down the job opportunities in • laboratory services.

(Marks
$$1 \ge 2 = 2$$
)

(iv) (v)	CERT ((Computer Emergency Response Team) Improving Digital Literacy		(Marks 1)
	B Carpel Tunnel Syndrome		me	
	C	Plagiarism		
	D	Referencing		
	E	Phishing		
	E	Recycling	$(Marks^{1/2} x 6 = 3)$	
				(Total Marks10)

3. Important : if table names and field names are not written as it is marks will not be allowed

(i). patient table - patient_number	
physician table - physician_no	(Marks 1 x $2 = 2$)

(ii).	
(a) reservation table	(Marks 1)
(b) physician table	(Marks 1)

- (iii).
 - (a) reservation table \rightarrow (P0005, D1002, 2020/02/16) (Marks 1)
 - (b) patient table \rightarrow (P0006, Neela Amarasiri, 0778529634) physician table \rightarrow (D1006, Premalal Wijesundara, gynecologist and obstetrician, ,1100) reservation table \rightarrow (P0006, D1006, 2020/02/16)

(Marks $1 \ge 3 = 3$)

4. (į)
------	---	---

)		
	(1) .lk	(5) IP
	2 ICT/Grade10/	6 ICMP
	(3) Web browser	(7) FTP
	(4) Chrome	(8) Draft
		(Marks $\frac{1}{2} \times 8 = 4$)
(ii) (a)	(1) head	(7) border
	(2) center	(i) tr
	3 img	9 th
	(4) br	(10) td
	(5) font	(1) ul
	6 p	(12) circle
		(All correct 5 marks)
		(9-11 correct 4 marks)
		(6-8correct 3marks)
		(3-5correct 2marks) (1-2 correct 1mark)
	Note [.] 1	No marks awarded if answers within the $<>$
(b)	In the Save As dialog box, Encoding Form r	
	- •	

5.

(i). =SUM(F4:F9)

(ii).

(a)	=B4-B4*C\$14
(b)	=B6-B6*C\$14

(iii). .

- (a) =C4*D4
- (b) =E4-F4

(iv). =F4+K4=SUM(F4,K4)

(v). =MAX(N4:N9)

(Marks2 x 5 = 10)

mark)

(Total marks10)

(Marks 0.5 X 3)

(ii) Objectives of the new system, Benefits of the system, efficiency of the new system

(Marks 0.5 X 3)

(iii)

6.



(Marks 0.5 X 4)

(iv) Direct deployment/ parallel deployment/ pilot deployment/ phase deployment(Any two answers and short description about relevant to given answers)

(for two methods-Marks 0.5 X 2) (for explanationMarks 1 X 2) (TotalMarks 3)

(v)

- In waterfall model next stage will be started after completion of the current step. But in Iterative Incremental model a system is developed through repeated cycles and in smaller portions at a time.
- In waterfall model the result of the developed system is found at the final stage. But in Iterative Incremental model as the system is developed through iterations system can be shown in parts before the final stage.
- Iterative Incremental model software developers can develop the system using what was learned at the previous stages. But in waterfall model no such advantage since next stage will be started after completion of the current step.

(Any two answers or any appropriate answer)

(Marks1 X 2) (Total Marks10)

7(i).

A- C1=0,C2=0,C3=0,C4=0 B- ANS1="Y" C- yes D- no E- ANS2="Y" F- no

Grade 11 - Information and Communication Technology Answers - western Province

G- yes H- Display C1,C2,C3,C4

(Marks 0.5 X 8)

```
(ii).
Begin
C1=0,C2=0,C3=0,C4=0
Repeat
Enter eligible for voting(Y/N) as ANS1
If ANS1="Y" then
       Vote by the relevant candidate number as Vote
       If Vote = 1 then
               C1 = C1 + 1
       Else
               If Vote=2 then
                       C2=C2+1
               Else
                       If Vote=3 then
                              C3=C3+1
                       Else
                              If Vote=4 then
                                      C4=C4+1
                              Else
                                      Display "your vote is invalid"
                              Eid if
```

End if

End if

End if

Enter voting is over(Y/N) as ANS2

Until ANS2="Y"

Display C1,C2,C3,C4

End.

(if all are correctMarks 3 Incomplete Mark1)

(iii).Var C:Array[1..4] of integer;

(Marks3)

(Total Marks10)





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පළාත් පුශ්න පතු **යැ**ග පිළිතුbr පතු පොත්



දාදර්ශ පුශ්න පතු **යඟ පිළිතු**රු පතු පොත්





වට්ටම් කතිතුව ගෙදරටම ගෙන්වාගැනීමට WWW.IOI.IK Learn Ordinary Level අමතුන්න - 071 777 4440/0756999990/071 8540371



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