INFORMATION & COMMUNICATION TECHNOLOGY (ICT)

Third Term Test 2023 (2024)

Grade 11

Paper - i

Time: 01 Hour

e Mazenod Co Kandana

Answer all the questions.

In each of questions 1 to 40, pick one of the alternatives 1, 2, 3 or 4 which is correct or most appropriate and mark your response on the answer sheet provided.

- 1) Which one of the following does not contain information?
 - 1. Weather report

- 2. Time table
- 3. Price list displayed in a super market
- 4. Unlabelled chart
- 2) Third generation computers were based on
 - 1. Vacuum tube
- 2. Transistors
- 3. Integrated Circuits
- 4. Microprocessors
- 3) The most general term used to describe the physical components of a computer is
 - 1. Software
- 2. Hardware
- 3. Firmware
- 4. Liveware

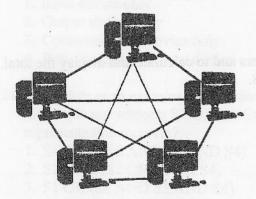
- 4) Consider the following statements.
 - (A) Light pen is a pointing device
 - (B) Web cam is an imaging and video input device.
 - (C) Flash drive is an input device

Which of the above is / are true?

- 1. (A) only
- 2. (B) only
- 3. (A) and (B) only
- 4. All (A), (B) and (C)
- 5) The main purpose of using an Uninterruptible Power Supply in a computer system is to
 - 1. Provide backup power in the case of a main power failure
 - 2. Protect the computer system from lightning
 - 3. Provide (Direct Current) DC power to the computer circuitry
 - 4. Charge the internal battery of the computer
- 6) The units used to measure computer speed are
 - 1. MB and GB
- 2. MHz and GHz
- 3. ms-1 and Kmh-1
- 4. None of these
- 7) What is the topology of the computer network shown in the following diagram?
 - 1. Bus

- 2. Star
- 3. Ring

4. Mesh



- 8) How many bits are there in a TB?
 - 1.2^{40}

 2.2^{33}

 3.2^{43}

4. None of these

Third Term Test 2023 (2024)

statement3 Print total

End

Grade 11

Paper - I Time: 01 Hour

9) Which of the follow	wine beath 1: 180.	Answer all the ques	
1 007	wing has the highest v	alue?	
1. 987 ₁₀	2. 11001100112	3.7778	4. AAA ₁₆
10)	usant as extra our de l		W. LELLIO
10) The octal equivaler	nt of ABCD ₁₆ is		
1. 1257518	2. 1257158	3. 1275158	4.37
	Yann	3. 12/3138	4. None of these
11) The decimal equiva	lent of CDEE.	2.1%	. Weather report
1. 52917	2 52710	er market 4. Un	of Delice Hot Montayerd in a silve
	2. 52719	3. 52179	4. None of these
12) If the character (IT)		ere hased on	
12) II the character 'H'	is represented in ASC	III as 1001000, then the	character 'Z' would be
			would be
1. 1100001	2. 1011010	3.1100100	4. 1100101
		s mars fred with son thesatt (4. 1100101
13) Which of the follow	ing statements are tru	enswere	
(A) $8b = 1B$	O		
(B) 4b = 1Nibble		10015.	
(C) $1B = 2Nibbles$			
(D) 1TB < 1PB		sorvati treat eshir he	
1. (A) and (C)	2. (A) and (D)	3. (B) and (C)	4 All (A) (D) (C) - 1 (D)
A Charles Vales A	all the term of th		4. All (A), (B), (C) and (D
14) In Microsoft Word,	which of the following	g keyhoard chartauta a	e used to Copy and Paste
respectively?		8 may come anoricuts at	e used to Copy and Paste
1. Ctrl + C and Ctrl	+ P	2 041 1 4 1 2 4	The main outdoor of using all
3. Ctrl + C and Ctrl -	+ Y	2. Ctrl + A and Ctrl	+ P rawog gaaland shivers 1
		4. Ctrl + C and Ctrl	+ V
15) Consider the following	no otata		
(A) Canacity (Basis	ng statements.		4. Change the enternal batters
(P) Doto and (Negisi	er Memory < Cash M	emory)	
(C) Control access spee	d (Register Memory	Cash Memory)	
(c) cost ber must stor	age (Register Memor	y < Cash Memory)	
a mon one of tife 101	lowing is true?	· · · · · · · · · · · · · · · · · · ·	
L (A) only	all and a Historia		
2. (B) only		woda Provisa istuano:	What is the topology of the c
3. (C) only			1 Pus 2.5
4. None of the above			
The College D			
The following regular	ocode is used for enter	ring 5 numbers and to c	alculate and display the total.
Use the pseudocode f	or answering the ques	tions 16 - 18.	are the total.
i Veni			
statement I			
count=1		The second secon	
Repeat			
Input num			
statement2			
count=count+1			

Third Term Test 2023 (2024) Grade 11

Paper - I

Time: 01 Hour

			2024.03.04
16) What is statement1?			
1. total=1	2. total=0	3. total=5	4. None of these
17) What is statement2?			m amado mobuta A (A)
I total=total+num	2. total=total+5	MONTE CONTROL OF THE	SIETE DHEIMONIA DA (CI)
1. total=total (Huin	2. total-total-3	3. total=total+count	4. None of these
18) What is statement3?	THE SHIBS LATE HE SHEET		Which of the shove use
1. Until count=5	2. Until count<5	3.Until count>5	4. None of these
19) Out of the following which	ch memory contains th	re manufacturer'e detail	la of the mother board?
1. RAM	2. ROM	3. Data traveler	
4. 44. 41.	2. ROW	5. Data traveler	4. Hard disk
 This machine can create of fields and radio waves. 	ligitalized images of i	internal organs of the bo	ody by using strong magnetic
1. ECG	2. EEG	3. MRI	4. CAT
21) Who is considered as the	first computer progra	mmer in the world?	
 Ada Augusta Lovelace 			vino (A) J
2. Howard Aiken			2 (B) only
3. Charles Babbage			
4. Joseph Jacquard			
He then copies the report following is most appropriate. Main memory and Flas 2. Hard Disk and Compact 3. Main Memory and Cord 4. Hard Disk and Main memory an	to a portable storage or riate to represent device sh memory ct Disk mpact Disk	device (device 2) to be a	(device 1) inside the compute given to a friend. Which of the ctively?
 23) A person has taken a photone of his friends using th 1. Input device only 2. Output device only 3. Communication device 4. Both Input and Output 	e display of the came	ra. In this scenario, the	camera serves as a / an
TOTAL TOTAL TOTAL		0.8 66.6.	1.30
24) To qualify in an examinat three optional subjects S2 represents this scenario? S1 AND (S2 AND S3 	s, S3 and S4. Which o	to pass one compulsory f the following Boolean	subject S1 and one of the expression correctly
2. S1 AND (S2 OR S3 O			313 Which of the following
3. S1 OR (S2 AND S3 A			

4. S1 OR (S2 OR S3 OR S4)

		the second secon	a description of the finding of
Third Term Test 2023 (2024)	Grade 11	Paper - I	Time: 01 Hour

25) Consider the following statements.

(B) An automated	ans medical advice from system, based on the	om a doctor by contacti humidity and temperate	ng him over the telephone are release water to plants in a
greenhouse	ale mecoranorum	OF A CTEROTERY	
Which of the above	hase a book which is e use the ICT effective	noi available in Sri Lan	ka from an online book shop
I. (A) and (B) only		ery :	
2. (A) and (C) only		many or sample and the	
3. (B) and (C) only		mory contains the man	
4. All (A), (B) and			
26) Consider the follow			
(A) Optical Fiber of	ables provide faster d	ata transfer rates than t	hat of copper cables
(B) Copper cables	provide faster data tra	insfer rates than that of	Optical Fiber cables
(C) Copper cables	are more expensive th	nan Optical Fiber cables	
	e is / are correct?		
1. (A) only			
2. (B) only			
3. (A) and (C) only			
4. (B) and (C) only			
27) A salesman who us	mally travels by moto	rovola naada ta vica (aa-	ry) a computer to record the sales
orders he takes from	m the shore he vicite	Which of the following	is / are suitable for this purpose?
(A) Super Compute	er	with of the tollowing	is / are suitable for this purpose?
(B) Palmtop Comp			
(C) Mainframe Con			
1. (A) only	mhorer		
2. (B) only			4. Hard Disk and Main memor
	`		4. Clark Lyss, and Iviam money
3. Both (A) and (B			
4. Both (B) and (C	a. Subsequently has s		 A person has taken a photograp
20) Which of the fall -			
28) Which of the follow			i. Input device only
1. Basic_Salary	2. Basic+Salary	3. \$Basic_Salary	4. Basic%Salary
29) In Pascal 1001 mod	d 999 equals to		
1. 30	2. 3.33	3.2	4. 1
			 To qualify in an examination, or
30) In Pascal the varial			f the program.
1. Var	2. Dim	3. Variant	4. None of these
			CIANCE CIVA AND CANALIS
31) Which of the follow (A) HTML tags are	surrounded by the tw		2. S1 AND (\$2 OR S3 OR S4) 3. S1 OR (\$2 AND S3 AND S
(B) HTML tags are			4. S1 OR (S2 OR S3 OR S4)
1. (A) only	2. (A) and (B) only	v to display the web pag y 3. (A), (B), (C) all	ge on the computer screen 4. None of the above
	(-/ (~) -/	/ (), (~-), (~) wit	

INFORTIFITION & COMMUNICATION TECHNOLOGY (ICT)

Third Term Test 2023 (2024)

Grade 11

Paper - I

Time: 01 Hour

- 32) In Microsoft Office Excel 2010, Shift + Tab shortcut key is used for
 - 1. Move to the beginning of the row
 - 2. Move to the beginning of the worksheet
 - 3. Move one cell to the left
 - 4. None of the above
- 33) In Microsoft Office Excel 2010, by default values are
 - 1. left aligned
 - 2. right aligned
 - 3. justified
 - 4. None of the above
- 34) In Microsoft Office Excel 2010, the result of the equation $=(2^2-2^2+2+2/2^2)/(2^0+2^2)$ is
 - 1.4
 - 2. 0.4
 - 3. 4.4
 - 4. None of the above
- 35) What is the output of the following HTML code segment?

<d1>

<dt>Coffee</dt>

<dd>Black hot drink</dd>

<dt>Milk</dt>

<dd>White cold drink</dd>

</dl>

- Coffee Black hot drink Milk White cold drink
- 2. Coffee

Black hot drink

Milk

White cold drink

3. Coffee

Black hot drink

Milk

White cold drink

- 4. None of the above
- 36) CoffeeCup and Eclipse are
 - 1. Programming Languages
 - 2. HTML Editors
 - 3. Video Editing Software
 - 4. None of the above

INFORMATION & COMMUNICATION TECHNOLOGY (ICT)

Third Term Test 2023 (2024)

Grade 11

Paper - I

Time: 01 Hour

37) Which of the following statement(s) is/are true?

(A) Bluegriffon is an Open Source Web Authoring Tool

- (B) Adobe Dream Viewer is a Purchasing Web Authoring Tool
- 1. (A) only
- 2. (B) only
- 3. Both (A) and (B)
- 4. None of the above

38) Which of the following statement(s) is/are true?

- (A) If the content of a website is maintained without any change over a period of time, such a website is called a static website.
- (B) If the web content is often changed, such a website is called a dynamic website.
- 1. (A) only
- 2. (B) only
- 3. Both (A) and (B)
- 4. None of the above
- 39) Joomla and Drupal are
 - 1. Programming Languages
 - 2. Open Source CMS Software
 - 3. Video Editing Software
 - 4. None of the above
- 40) These are some of the responsibilities of a Web Editor.
 - 1. Designs interfaces of the website
 - 2. Writes codes, checks errors and rectifies those
 - 3. Fulfills maintenance tasks related to the web server and database
 - 4. None of the above

Third Term Test 2023 (2024)

Grade 11

Paper - II

Time: 02 Hours

Answer five questions only, including first question and four other questions. First question carries 20 marks and each of the other questions carries 10 marks.

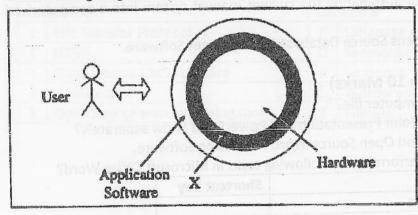
QUESTION # 1 (2 Marks X 10 = 20 Marks)

- 1. Write two differences between RAM and ROM.
- 2. What do the terms DNS and ICP/IP stand for?
- 3. Write two examples for language translators.
- 4. What is the hexadecimal equivalent of the octal value 45678?
- 5. Write two services provided by LMS for the school management.
- 6. Write two names of Free and Open Source Electronic Spreadsheet Software.
- 7. Write two characteristics in LCD when comparing monitors designed using CRT.
- 8. Write two special features that the USB port possesses comparing with the other ports.
- 9. Database is a file made of various internal objects. Name two internal objects in a database.
- 10. Write two reasons why a dot matrix printer is not suitable to be used in an operation theatre.

QUESTION # 2 (10 Marks)

PART (A) - (1 Marks X 4 = 4 Marks)

The following diagram represents and abstract view of a computer system.



- 1. Name the layer labeled as X
- 2. Write one function for the layer labeled as X.
- 3. Write one function for the layer labeled as Hardware.
- 4. Provide an example for the layer labeled as Application software.

PART (B) - (2 Marks X 3 = 6 Marks)

- 1. What are the four types of Operating Systems?
- 2. What are the four components used by GUI Operating Systems?
- 3. Write down four different names of utility programs in an Operating System?



INFORMATION & COMMUNICATION TECHNOLOGY (ICT)

Third Term Test 2023 (2024)

Grade 11

Paper - II

Time: 02 Hours

QUESTION #3 (10 Marks)

Name
Saman Silva

Mallika Perera

(2 Marks X 5 = 10 Marks)

The following three tables are a part of a school management information system that stores details of teachers and their subjects. One teacher may teach more than one subject and one subject may be taught by more than one teacher.

Teachers

TeacherID

1111 2222

meters City Office Sty		
SubjectCode	SubjectName	
Eng10	English	
Sin09	Sinhala	

Science

Teacher_Subject

SubjectCode	TeacherID
Eng10	1111
Sin09	2222
Sci10	1111
Sci10	2222

- 1. Briefly explain the purpose of a primary key.
- 2. List two primary keys together with their corresponding table names.
- 3. Write two disadvantages that would occur if a single table is used instead of three tables for storing the data.
- 4. Assume that in the library of your school the borrowing and returning of books are recorded manually. List two advantages of automating the current manual system into a computerized system.
- 5. Write two names of Free and Opens Source Database Management Software.

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QUESTION # 4 (1 Marks X 10 = 10 Marks)

- 1. What are the two parts of the computer file?
- 2. Write the extensions of a PowerPoint Presentation and PowerPoint Show separately?
- 3. Write down two names of Free and Open Source Word Processing Software.
- 4. What are the shortcut keys for performing the following tasks in Microsoft Office Word?

	Task	Shortcut Key
1	Select the whole document	
2	Replace words	

5. Check whether the following characteristics of a good quality presentation are true or false.

	Characteristics	True / Faise
1	Number of lines per slide are 10 to 12	
	Font size at 32 points or more	

- 6. Write down two names of Free and Open Source Electronic Presentation Software.
- 7. Write down two Views in Microsoft Office PowerPoint.
- 8. Write down two Slide Layout Templates in Microsoft Office PowerPoint.
- 9. What are the shortcut keys for performing the following tasks in Microsoft Office PowerPoint?

	Task	Shortcut Key
1	Creating a new PowerPoint Presentation	- I o i come near
	Inserting a new slide	

10. Write down two different objects that you can insert in Microsoft Office PowerPoint Slides.

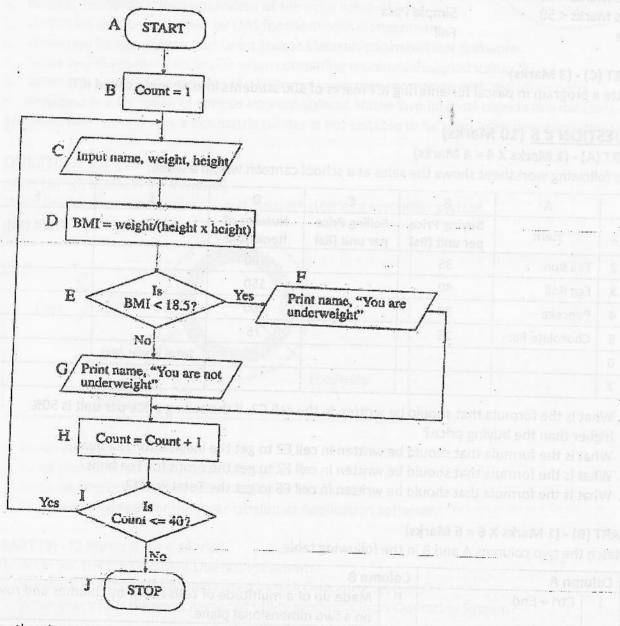
INFORMATION & COMMUNICATION TECHNOLOGY (ICT)

Third Term Test 2023 (2024) Grade 11 Paper - II Time: 02 Hours

QUESTION # 5 (10 Marks)

PART (A) - (1 Marks X 5 = 5 Marks)

A Health Science teacher needs a computer program to identify the underweight students in her class. The class consists of 40 students. The underweight students are identified using their Body Mass Index (BMI). BMI is calculated by dividing the weight in kilograms by the square of the height in meters. The following flow chart is drawn for the required program. The symbols are labelled from A to J for reference.



Use the above flow chart to answer the following questions.

- 1. Write down the input(s) of the flow chart.
- 2. Write down one possible output of the flow chart.
- 3. Write the condition of the iteration.
- 4. Write the statement that helps to terminate the iteration.
- 5. List the label(s) that is/are executed within the selection control structure.

Third Term Test 2023 (2024)

Grade 11

Paper - II

Time: 02 Hours

PART (B) - (2 Marks)

Write the Pseudo Code for entering marks of a subject and to display the grade according to the following criteria.

Marks

Grade

Marks ≥ 75

Distinction

50 ≤ Marks < 75

Credit

40 ≤ Marks < 50

Simple Pass

Else

Fail

PART (C) - (3 Marks)

Write a program in pascal for entering ICT marks of 100 students into an array called ICT.

QUESTION # 6 (10 Marks)

PART (A) - (1 Marks X 4 = 4 Marks)

The following worksheet shows the sales at a school canteen within a week.

	Α	В	school Charles	D	E	F.
1	Item	Buying Price per unit (Rs)	Selling Price per unit (Rs)	Number of Items sold	Income (Rs)	Profit (Rs)
2	Tea Bun	35	e Stown well here.	100	an Emiliane	
3	Egg Roll	40		150		
4	Pancake	30		200		
5	Chocolate Bar	25		75		
6		se of this or w			Total Profit (Rs)	
7				- ·	SIE BOL SIDAY AND	

- 1. What is the formula that should be written in the cell C2, if the selling price per unit is 50% higher than the buying price?
- 2. What is the formula that should be written in cell E2 to get the income for Tea buns?
- 3. What is the formula that should be written in cell F2 to get the profit for Tea buns?
- 4. What is the formula that should be written in cell F6 to get the Total Profit?

PART (B) - (1 Marks X 6 = 6 Marks)

Match the two columns A and B in the following table.

Colu	ımn A	Colu	ımn B
1	Ctrl + End	P	Made up of a multitude of cells made by columns and rows on a two dimensional plane
2	Name box	Q	Free & Open Source Software
3	OpenOffice Calc	R	The address of the active cell is displayed
4	Workbook	S	Moves to bottom right cell of the data range
5	Worksheet	T	Collection of worksheets
6	Ctrl + Home	U	Moves the cell to A1 position

INFORMATION & COMMUNICATION TECHNOLOGY (ICT)

Third Term Test 2023 (2024)

Grade 11

Paper - II

Time: 02 Hours

QUESTION # 7 (10 Marks)

PART (A) - (5 Marks)

Draw the output of the following HTML code segment?

Column 1Column 2Column 3

Row 1 Cell 1

Row 1 Cell 2

Row 1 Cell 3

Row 2 Cell 2Row 2 Cell 3

Row 3 Cell 1

PART (B) - (1 Marks X 5 = 5 Marks)

Match the two columns A and B in the following table.

Col	lumn A	Col	lumn B
1	File Transfer Protocol	P	Language used for documents in the WWW
2	HTML	Q	Seamonkey Composer
3	Open Source CMS software	R	Kompozer
4	HTML editor	S	Wordpress
5	Open Source web authoring tool	7	Filezilla

