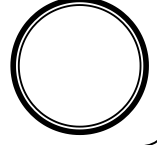




யா/ ஹாட்லி கல்லூரி, பருத்தித்துறை.  
J/ Hartley College, Point Pedro.



முதலாம் தவணைப் பரீட்சை – 2020 – தரம் 09  
First Term Examination – 2020 – Grade 09

தகவல் தொடர்பாடல் தொழினுட்பவியல் I, II  
Information & Communication Technology I, II

80

E

I, II

ஒரு மணி முப்பது நிமிடம்  
One hour and thirty minutes

சுட்டெண்  
Index Number

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Part - I

\* Answer all the questions on this paper itself.

\* In each of questions 1 to 10, pick one the alternatives (1), (2), (3), (4) which is correct or most appropriate.

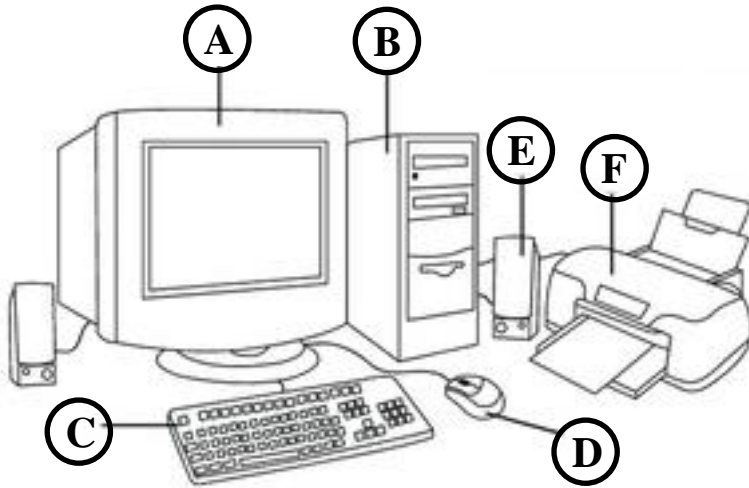
- Name the website address which can be used to download the text books from grade 1 to 11.  
(1) www.e-thaksalawa.moe.gov.lk (2) www.edupub.gov.lk  
(3) www.doenets.lk/exam (4) www.nie.lk
- What is the official learning management system of the general education system of Sri Lanka which is being carried out by the Information Communication Technology branch of the Ministry of Education, Sri Lanka?  
(1) www.hartley.lk (2) www.e-thaksalawa.moe.gov.lk  
(3) www.doenets.lk/exam (4) www.nie.lk
- What is the binary number equivalent to the decimal number 45 ?  
(1) 110101<sub>2</sub> (2) 101011<sub>2</sub> (3) 101100<sub>2</sub> (4) 101101<sub>2</sub>
- Which of the following decimal numbers is equivalent to the binary number 100110<sub>2</sub> ?  
(1) 38 (2) 83 (3) 37 (4) 73
- Which device is connected in DVI port ?  
(1) Keyboard (2) Computer Monitor (3) Modem (4) Printer
- Which of the following is **not** a non-portable computer ?  
(1) Server computer (2) Desktop computer  
(3) All-in-one computer (4) Laptop computer
- Which of the following unit is used to measure the processor's speed?  
(1) GB (2) MB (3) Mb (4) GHz
- What symbol is used for multiplication in an electronic spreadsheet?  
(1) = (2) + (3) \* (4) x
- Which function is used to calculate the total amount of the specified values in an electronic spreadsheet?  
(1) Sum (2) Average (3) Max (4) Total
- What would be the number displayed, if the formula =3^2+6/3\*(4-2) is entered in a cell of an electronic spreadsheet?  
(1) 7 (2) 10 (3) 13 (4) 27

( 10 x 2 = 20 Marks )

**Part – II**

*\* Answer all the questions on this paper itself.*

**1.** Name the computer devices shown below.



- A : .....
- B : .....
- C : .....
- D : .....
- E : .....
- F : .....

*( 6 x 1 = 6 Marks )*

**2.** Categories the devices correctly and write in the following grid.

{ Monitor, Keyboard, Modem, Hard Disk, Mouse, Printer, Scanner, Router, Speaker, CD, Microphone, Switch, Web Camera, Multimedia Projector }

Input Devices	Output Devices	Storage Devices	Communication Devices

*( 14 x 1 = 14 Marks )*

**3.**

(i) Write down technical specification requirements to consider when purchasing a computer.

- a) .....
- b) .....
- c) .....
- d) .....

*( 4 x 1 = 4 Marks )*

(ii) Write down non-technical specification requirements to consider when purchasing a computer.

- a) .....
- b) .....
- c) .....
- d) .....

*( 4 x 1 = 4 Marks )*

4. Give the number of cores in the following type of central processing units.

Dual Core : ..... Quad Core : ..... ( 2 x 2 = 4 Marks )

5. Write the shortcut keys to execute the following tasks.

- New : .....
- Save : .....
- Cut : .....
- Copy : .....
- Paste : .....
- Print : .....
- Undo : .....
- Redo : .....

( 8 x 1 = 8 Marks )

6. The advertisement shown is a specification statement issued by a sales company regarding Laptop Computer (A) and Desktop Computer (B). Complete the table below as appropriate.

**Laptop Computer (A)**

**Desktop Computer (B)**

Model:- hp 15-da0003TU  
 Processor:- intel Core i3-8<sup>th</sup> Gen  
 Ram- 4GB  
 HDD:- 1TB  
 Graphics:- intel HD  
 Display:- 15.6" HD  
 ODD:- DVDRW  
 OS:- Win10 Home



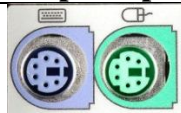



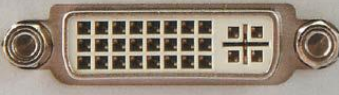
HP ProDesk 400 G4 Core i5 (7<sup>th</sup> Gen Kaby Lake)  
 Intel Core i5-7500 (3.4GHz 6M Cache 4 Cores)  
 8GB DDR4 RAM Memory  
 1TB (1000GB) HDD  
 DVD/RW Drive  
 HP Monitor 19" Inches LED HD  
 OS - Free Dos  
 3 Years Warranty



	Specification	Laptop Computer (A)	Desktop Computer (B)
(i)	Processor	.....	.....
(ii)	Capacity of hard disk	.....	.....
(iii)	Capacity of RAM	.....	.....
(iv)	Warranty period	.....	.....
(v)	Operating System	.....	.....

( 10 x 1 = 10 Marks )

7. Write down the name of computer ports given in the following diagram and give an example of devices to each that is connected to it.

No.	Computer port	Name of computer port	Connected device
(i)		.....	.....
(ii)		.....	.....
(iii)		.....	.....
(iv)		.....	.....
(v)		.....	.....

( 10 x 1 = 10 Marks )

8. In the spreadsheet below, write down the answers you get when doing calculations using formulas found in the table.

	A	B	C	D	E
1	8	2	5	3	
2	3	1	6	2	
3	4	9	2	7	
4					
5					

	Formula	Answer
(i)	=A1+D3	.....
(ii)	=B3+B2-B1	.....
(iii)	=C2*D4+B3	.....
(vi)	=(B3+B2)/C1+A1*D2	.....
(v)	=D3*E1/B3*A1	.....

( 5 x 1 = 5 Marks )

9. Draw a flow chart to If the number of password characters is less than 8, it is **Weak password**.  
If it is more than 8, it is a **Strong password**.

( 5 Marks )

10. The following spreadsheet contains information on the marks obtained by the Grade 9 students in the first term of the Hartley College.

	A	B	C	D	E	F	G	H	I	J
1	<b>Hartley College - Grade 9 - Term i Marksheet 2020</b>									
2	<b>No</b>	<b>Name</b>	<b>Mathematics</b>	<b>Science</b>	<b>Tamil</b>	<b>English</b>	<b>ICT</b>	<b>Total</b>	<b>Average</b>	
3	1	Jathursan	89	84	82	88	92	435	87.00	
4	2	Visvakanthan	91	88	81	85	96	441	88.20	
5	3	Hathushan	93	85	83	87	97	445	89.00	
6	4	Thamilmaran	88	86	89	83	95	441	88.20	
7	5	kanisan	87	86	88	82	94	437	87.40	
8	6	Nitharsan	85	82	80	80	99	426	85.20	
9	7	Kamal	56	45	ab	40	75	216	54.00	
10	8	Tharsan	75	67	49	ab	ab	191	63.67	
11	9	Niru	54	ab	ab	ab	59	113	56.50	
12	10	Kanthan	56	45	ab	78	67	246	61.50	
13										
14	<b>Maximum Marks</b>		93	88	89	88	99			
15	<b>Minimum Marks</b>		54	45	49	40	59			
16	<b>No of Present Students</b>		10	9	7	8	9			
17	<b>No of Students in class</b>		10	10	10	10	10			
18										

- (i) Write a spreadsheet function to be written in column **H3** to calculate the total marks earned by a student named **Jathursan**?  
.....
- (ii) Write a spreadsheet function to be written in column **I5** to calculate the average marks of **Hathushan**?  
.....
- (iii) Write a spreadsheet function to be written in column **G14** to calculate the highest marks in **ICT**?  
.....
- (iv) Write a spreadsheet function to be written in column **F15** to calculate the lowest marks in **English**?  
.....
- (v) Write a spreadsheet function to be written in column **E16** to calculate the number of students sat for the **Tamil**?  
.....

( 5 x 2 = 10 Marks )

