

வலயக் கல்வி அலுவலகம், வடமராட்சி. **Zonal Education Office, Vadamaradchy.**



	{	,	ணப் பரீட்சை - 201 Examination - 201	
	தகவல் தொடர்பாடல் தொழ Information & Communicatio		80 E I, II	இரண்டு மணித்தியாலம் Two Hours
	Grade 09 Information	on & Communica	tion Technology Inc	dex No:
	* Answer all the ques * In each question 1 most appropriate.	tions on this paper		2), (3), (4) which is correct of
l .	Which of the following (1) Server computer (3) All-in-one computer	-	e computer? (2) Desktop compute (4) Laptop compute	
	Microphone is an examp (1) Process	ole for? (2) Input	(3) Output	(4) Storage
•	Which of the following (1) GB	unit is used to measu (2) MB	are the processor's speed (3) Mb	d? (4) GHz
•	Which of the following (1) Apple	is not a processor made (2) Intel	anufacturing company? (3) Microsoft	(4) AMD
•	Which of the following (1) CRT	is not a type of the n (2) USB	nonitor? (3) LCD	(4) LED
•	Which of the following (1) DVI	is an example for mo (2) USB	onitor port? (3) RJ45	(4) PS/2
•	Which of the following (1) Web Camera (2) Barcode Reader (3) Digital Camera (4) Multimedia Project		to USB port?	
•	Which is equivalent to 1 (1) 10011001 ₂	.53 ₁₀ (2) 10010010 ₂	(3) 11111010 ₂	(4) 11101010 ₂
•	Which of the following (1) 253	decimal number is ed	quivalent to 11111101 (3) 507	1 ₂ ? (4) 499
.0	Which of the following(1) Processor speed(3) Screen size	is not a non-technica	al feature of a computer (2) Computer price (4) Hard disk capac	

11. In the spread sheet, the r	name of the column is a	<u> </u>					
(1) only in digits		(2) only in English letters					
(3) only in digits or let	ters	(4) Can't say exactly.					
12. In electronic spreadsheet (1) Bold (3) Fill color	symbol	l is used for (2) Underline (4) Borders					
13. What symbol is used for	multiplication in an el	ectronic spreadsheet?					
(1) =	(2) +	(3) *	(4) x				
(1)	(2)	(5)	(1) A				
14. Which function is used spreadsheet?	to calculate the tota	l amount of the spec	ified values in an electronic				
(1) Sum	(2) Average	(3) Max	(4) Min				
15. Which of the following a 20 students in grade nine	• •	table to show the math	nematics and science marks of				
(1) Line	(2) Column	Pie	(4) Bar				
46 7771 1 0 1 0 11 1 1							
16. Which of the following is	• •	•	(4) (4,				
(1) Input	(2) Process	(3) Output	(4) Storage				
17. Which of the following in (1) Random	s not a basic control st	ructure used in flowch (2) Sequence	art?				
(3) Selection		(4) Repetition					
18. What is the meaning of	symbo	l used in flowchart?					
(1) Start		(2) Input					
(3) Process		(4) Direction of da	nta flow				
	•						
19. What is the meaning of	symbo	l used in flowchart?					
(1) Start	(2) Output	(3) Process	(4) Decision				
20 W/L: 1 6 /L - 6 /l		ot monition - £41 1 1	unhan main a dre meet 0				
20. Which of the following in	(2)	(3)	(4)				
		(3)	(4)				
			$(20 \times 2 = 40 \text{ marks})$				

Part - II

- * Answer three (03) questions only, including the first question and two others.
- * First question carries 20 marks and each of the other questions carries 20 marks.

1.

(i) Write the names of the parts of the computer devices shown in the following figure.

$ \begin{array}{ccc} & & & & & & \\ & & & & & \\ & & & & & \\ \end{array} $	A:
	B:
	C:
	D:
(F)	E:
	F:

 $(6 \times 0.5 = 03 \text{ marks})$

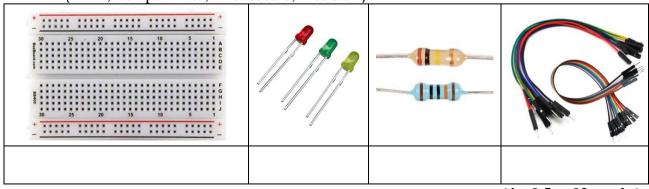
(ii) Write the appropriate devices in the appropriate column of the classification table.
{ Monitor, Keyboard, Hard disk, Scanner, Router, Speaker, CD, Switch, Web camera, Multimedia projector }

Input devices	Output devices	Storage devices	Communication devices

				$(10 \times 0.5 = 05 \text{ marks})$
(iii)	Write down non-tec	hnical specification requir	rements to consider when	purchasing a computer.
a)				
b)				
c)				
d)				
,				$(4 \times 0.5 = 02 \text{ marks})$
(iv)	Give the number of	cores in the following type	e of central processing ur	,
	Dual Core :	Quad Co	ore :	$(2 \times 0.5 = 01 \text{ mark})$
(v)	Write the default nu	mber of worksheets in an	electronic spreadsheet?	
				(01 mark)
				(

		Cut:		
Paste:		Undo:		
Write the	basic control structure	s used in election?		$(4 \times 0.5 = 02 \text{ marks})$
	basic control structure	s used in argorithm?		
ŕ				
c)				
Write the	following scratch array	y name and its numbe	er of elements?	(01 mark
	2: Marks			
1 74	Name of the	ne array:		
2 65	Number of	f elements:		
3 87				(2 - 0.5 01 moral
5 60				$(2 \times 0.5 = 01 \text{ mark})$
100	gth: 5			
Write the	names of the following	a davices from the lis	+9	
WITTE THE	nsor, Micro:bit, Ultras	=		
{ PIR Se				
{ PIR Se				
{ PIR Se		* N#9*70@B	0.550	(000.2)
{ PIR Se		O UNO		1C-SR04
{ PIR Se				10-5R04 10-5R0
{ PIR Se		DONO CONTRACTOR OF CONTRACT		10-SR01 10-SR0
{ PIR Se	SV GND	D (UND)		10-SR01 10-SR0
{ PIR Se	SV GND	D UND TO THE PARTY OF THE PARTY		10-sr04 10-sr0

{ LED, Jumper wires, Breadboard, Resistor }



 $(4 \times 0.5 = 02 \text{ marks})$

2.

a) The following figure shows the characteristics of a computer. Use this to answer the questions below.

View basic information about your computer

Windows edition Windows 10 Pro © 2018 Microsoft Corporation. All rights reserved. Windows 10 Pro Windows 10 Pro

System

Processor: Intel(R) Core(TM) i7-4790K CPU @ 4.00GHz 4.00 GHz

Installed memory (RAM): 8.00 GB (7.69 GB usable)

System type: 64-bit Operating System, x64-based processor
Pen and Touch: Touch Support with 255 Touch Points

Computer name, domain, and workgroup settings

Computer name: NitharsanLap
Full computer name: NitharsanLap



- (i) Write the name of the manufacturer of the central processing unit in the particular computer.
- (ii) Write the type of the CPU in the particular computer.
- (iii) Write the clock speed of the CPU in the particular computer.

 $(4 \times 2 = 08 \text{ marks})$

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



(iv) Write the capacity of the RAM in the particular computer.

HP 250 G5

- : HP 250 G5
- : 6th Generation Intel® Core™ i3 -6006U
- 4 GB DDR3L-1600 SDRAM
- 500 GB SATA
- : DVD+/-RW SuperMulti DL
- : Wifi/CR/BT
- : 15.6" LED HD Display
- : Intel® HD Graphics
- : FREE DOS
- : Yes
- ·» Warranty:1YEAR
- ·» Price **52,000.00**
- FREE-BAG, MOUSE, NORTON ANTIVIRUS



HP 7" Gen PRODESK 400 G4 MT DESKTOP

Computer (B)

Core i5-7500 6M Cache 3.40 Ghz

INTEL H270 CHIPSET

8GB DDR4 2133 MHz

1TB 7200 rpm SATA 6Gb/s

Intel Integrated Graphics

DVD+/-RW Drive

Free DOS

HP 19 inch(18.5) LED MONITOR

3 Years Warranty

Rs.87.000.00

	Specification	Computer (A)	Computer (B)
(i)	Processor		
(ii)	Capacity of hard disk		
(iii)	Capacity of RAM		
(iv)	Size of the monitor		
(v)	Price of the computer		
(vi)	Warranty period		

 $(12 \times 1 = 12 \text{ marks})$

3.

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

	А	В	С	D	Е
1	9	5	8	2	
2	6	4	3	7	
3	1	5	2	6	
4					

	Formula	Answer
(i)	=A1+B1	
(ii)	=D1+D2+D3	
(iii)	=C2-B3+A2	
(vi)	=B1*D3-A1	
(v)	=A1/C2+B2*A1	
(vi)	=C1/C3*B2	
(vii)	=A3+E3-C1*B4	
(viii)	=A1*B2*C3*D4	

 $(8 \times 1 = 08 \text{ marks})$

b) The following spreadsheet contains information on the marks obtained by the Grade 9A students in the first term of the school.

	А	В	С	D	E	F	G	Н	1	
1			N	/larkShe	et 201	8				
2	No	Name	Subject 1	Subject 2	Subject 3	Subject 4	Subject 5	Total	Average	
3	1	Kasun	56	45	24	78	89	292	58.4	
4	2	Seetha	ab	45	ab	98	87	230	76.667	
5	3	Kanthi	ab	ab	78	59	87	224	74.667	
6	4	Gayani	89	76	76	76	76	393	78.6	
7	5	Deepal	78	77	67	96	ab	318	79.5	
8	6	Naseem	67	ab	ab	56	69	192	64	
9	7	Thanuka	56	45	24	78	89	292	58.4	
10	8	Bimlaka	ab	67	23	56	ab	146	48.667	
11	9	Thiwanga	54	65	78	65	ab	262	65.5	
12	10	Pradeepa	56	45	24	78	ab	203	50.75	
13										
14	Maxim	um Marks	89	77	78	98	89			
15	Minimu	ım Marks	54	45	23	56	69			
16	No of P	resent Students	7	8	8	10	6			
17	No of S	tudents in class	10	10	10	10	10			
18										

(i)	Write a spreadsheet function	n to b	e written	in	column	H3	to	calculate	the	total	marks	earned	by	a
	student named Kasun ?													

(i	i) Write a s	preadsheet	function to	be wri	tten in	column	I6 to	calculate	the average	marks o	f Gav	vani?
1-	-,	pro-				• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •				,

(iii)	Write	a	spreadsheet	function	to	be	written	in	column	C14	to	calculate	the	highest	marks	in
	subject 1?															

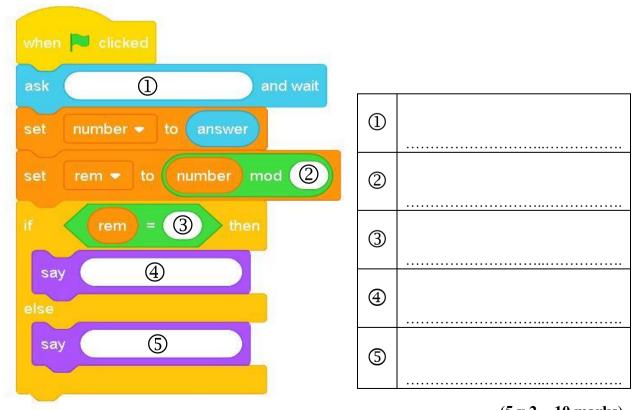
- (iv) Write a spreadsheet function to be written in column **E15** to calculate the lowest marks in **subject 3**?
- (v) Write a spreadsheet function to be written in column **G16** to calculate the number of students sat for the **subject 5**.?
- (vi) Write a spreadsheet function to be written in column C17 to calculate number of students in the class?

 $(6 \times 2 = 12 \text{ marks})$

- 4.
- a) Draw a flow chart to find the given number is **Odd number** or **Even number**.

(10 marks)

b) Below is a scratch program to get a number and publish it as an Odd number or Even number. From ① to ⑤ write the appropriate items for the locations shown



 $(5 \times 2 = 10 \text{ marks})$