				Tern	n Test –	January 202 තරි - 11 ලෙය්			e -1 hor ಜ - ಜ್ರಾಂ	
dditio	nal Reading Tim			Comm	unicatio	on Technolog	gy I	80	E	Ι
	_				Grade :		]	Index		
Note:		<i>.</i> •								
*			o 40, pick or	ne of the	alternative	es (1), (2), (3), (4	4) which	is <b>corre</b> o	ct or mo	ost
*	appropriate. Mark a cross	$(\mathbf{v})$ on the	number corr	asnondi	na ta vaur	choice in the a	newor cl	haat nrow	idad	
*		. ,		-	•	sheet. Follow th		-	ucu.	
1	Consider the	following	abla							
1.		Subject N			Total	Average				
	Name	Science	English	ICT	Marks	Marks				
	Shri	75	78	90	243	81				
	Krish	67	90	95	252	84				
	Which of the	following	is represent	above	table Data	and Informati	on resp	ectively	?	
	(1) Total Ma	rks and Av	erage Marks	S	(2) Tota	al Marks and N	lame			
	(3) Name and	d Average M	Marks		(4) Scie	nce and ICT				
2.	Which of the	following	is not a syst	em?						
2.	(1) ATM car	-	15 Hot û 5yst		(2) OR	Code used to f	ind info	ormation		
	(3) Processin		information							
		-								
3.		-				value of all fi	-			
	-	•	• •			calculated by th				
	-					ator of a count	-		-	
	calculation o	-	characterist	ic of qu	anty of m	formation is n	ot satisi	ied in th	e abov	e
	(1) Relevanc				(2) Con	npleteness				
	(3) Timeline	•				t Effectiveness	5			
4.	unit. The pro	cess of pro a hospital	viding eme	rgency	care by a	ng the patient w trained persor work, when a	n in con	sultation	with a	a
	(1) Home he		ne			(2) Telemedici				
	(3) Medical					(4) Emergency				

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5.	Which of the followi	ng is not a use of robo	otic technology?	
	(1) Increase the cost	of production	(2) 24 hours	s service
	(3) Efficiency		(4) Hygiene	
	· · ·			
6.	Which of the follow	ving system is inven	ted as second genera	ation computer and major
	hardware technology			I I I I I I I I I I I I I I I I I I I
	(1) ENIAC	(2) EDSAC	(3) IBM7030	(4) IBM701
		(2) LD SITE	(3) IBN1/030	
7	Major hardware tech	nology of fourth gene	ration computer is	
/.	(1) LSIC	(2) IC	(3) ULSI	(4) Transistor
	(1) LSIC	(2) IC	(5) ULSI	(4) Transistor
0	A computer is used to	a norform many tools	cimultaneously. This	special feature is called
8.	-		•	special feature is called
	(1) Efficiency	(2) Speed	(3) Versatility	(4) Accuracy
0				
9.	1	<b>e</b> 1	01	scientific and engineering
				outers are used in institutes
				. Which of the following
	classification is below	ng to this type of com	puter?	
	(1) Mini Computer		(2) Micro C	Computer
	(3) Mainframe Comp	outer	(4) Super C	omputer
10.	When we input Data	and instructions using	g an input device, it is	first going to the
	(1) Primary Memory		(2) CPU	0 0
	(3) Secondary storag		(4) Output l	Device
	(-) ~~			
11	Which of the followi	ng device is common	ly used in libraries an	d in government institutes
11.		ocument and to edit th		•
	(1) OMR	(2) OCR	(3) MICR	(4) ATM
	(1) OIVIR	(2) OCK	(5) WHER	(4) ATM
10	Which of the follows	ing type of a printer i	a applied dried ink a	n the paper to produce the
12.		ing type of a printer i	s applied difed link of	n the paper to produce the
	printout?	(2) Dat matrix	(2) Dubble	(1) Lat Lat
	(1) Laser	(2) Dot matrix	(3) Bubble	(4) Ink Jet
10	U 1D'1' 1			
13.		several components.	which of the followi	ng component is transmits
	data to the platter?			
	(1) Head		(2) Spindle	
	(3) Actuator		(4) IDE Con	nnector
14.	What is the difference	e between USB flash	drive and memory car	rd?
		data	(2) The abil	ity to write data
	(1) The ability to read	a aata	(2) Inc uon	ing to write data
	<ul><li>(1) The ability to read</li><li>(3) Portability</li></ul>	a autu		•
	· · ·	a dutu		thod of connecting
	(3) Portability			•
	<ul><li>(3) Portability</li><li>Consider the following</li></ul>	ng Ports	(4) The met	hod of connecting
	<ul><li>(3) Portability</li><li>Consider the followin</li><li>A – PS/ 2 Port</li></ul>	ng Ports B – Parallel Port		•
	<ul> <li>(3) Portability</li> <li>Consider the followin</li> <li>A – PS/ 2 Port</li> <li>E – USB Port</li> </ul>	ng Ports B – Parallel Port F – Graphic Port	(4) The met C – HDMI Port	bod of connecting D – RJ 45 Port
	<ul> <li>(3) Portability</li> <li>Consider the followin</li> <li>A – PS/ 2 Port</li> <li>E – USB Port</li> <li>Which of the above</li> </ul>	ng Ports B – Parallel Port F – Graphic Port	(4) The met C – HDMI Port	hod of connecting
	<ul> <li>(3) Portability</li> <li>Consider the followin</li> <li>A – PS/ 2 Port</li> <li>E – USB Port</li> <li>Which of the above computer?</li> </ul>	ng Ports B – Parallel Port F – Graphic Port ports are used to co	(4) The met C – HDMI Port onnect monitor or m	hod of connecting D – RJ 45 Port ultimedia projector to the
	<ul> <li>(3) Portability</li> <li>Consider the followin</li> <li>A – PS/ 2 Port</li> <li>E – USB Port</li> <li>Which of the above</li> </ul>	ng Ports B – Parallel Port F – Graphic Port	(4) The met C – HDMI Port	bod of connecting D – RJ 45 Port
	<ul> <li>(3) Portability</li> <li>Consider the followin</li> <li>A – PS/ 2 Port</li> <li>E – USB Port</li> <li>Which of the above computer?</li> </ul>	ng Ports B – Parallel Port F – Graphic Port ports are used to co	(4) The met C – HDMI Port onnect monitor or m	hod of connecting D – RJ 45 Port ultimedia projector to the
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16. Arrange the fo order. A - 110111112		resented by different nur	mber systems in ascending
B - 254 <sub>10</sub>			
$C - FF_{16}$			
D - 345 <sub>8</sub>			
(1) BACD	(2) ADBC	(3) ABCD	(4) ABDC
	SD and LSD of 0111111	1 V	
(1) 0,0	(2) 0,1	(3) 1,0	(4) 1,1
following is re	present the same capacity	y?	lrive is 2GB. Which of the
(1) 1024 MB	(2) 2000 MB	(3) $2^{10}$ MB	(4) 2048 MB
19. Consider the f	ollowing comparisons		
A - $100_8 > 3I_8$	E <sub>16</sub>		
B - $101_8 = 65$	5		
C - 3F <sub>16</sub> <>	0011 11112		
	above statement/s is / are		
(1) A only	(2) A and B	(3) B and C	(4) All A, B, C
20 Which of the f	following included for the	e BCD coding system?	
(1) 1101 0101	•	(2) 1000 00	)11 1111
(2) 0100 1101	0110	(4) 1001 10	001 0011
(3) 0100 1101	0110	(4) 1001 10	
	ollowing Pascal program		
21. Consider the former of Program of	ollowing Pascal program		
21. Consider the f	ollowing Pascal program		
21. Consider the former of the former of the second	ollowing Pascal program		
21. Consider the formation of the program of the pr	ollowing Pascal program		
21. Consider the formation of the formation of the second	ollowing Pascal program Lexam_2022; integer;		
21. Consider the formula $Program$ of $Var a, b : i$ Begin $a := 1 ;$ b := 1 ; Repeat $a := a + 1$ b := b + 1	ollowing Pascal program Lexam_2022; integer; ; ;		
21. Consider the formation of the formation of the second	ollowing Pascal program Lexam_2022; integer; ; ;		
21. Consider the formula $Program$ of $Var a, b : i$ Begin $a := 1 ;$ b := 1 ; Repeat $a := a + 1$ b := b + 1 write $(a, b)$	ollowing Pascal program Lexam_2022; integer; ; ;		
21. Consider the formation $Program$ of $Var a, b : if Begin a := 1 ; b := 1 ; b := 1 ; Repeat a := a + 1 b := b + 1 write (a,b) Until a>3 ; End.$	ollowing Pascal program Lexam_2022; integer; ; ;	code.	
21. Consider the for Program of Var a,b : if Begin a := 1 ; b := 1 ; Repeat a := a + 1 b := b + 1 write (a,b) Until a>3 ; End. What is the ou (1) 11223344	ollowing Pascal program Lexam_2022; integer; ; ; ; tput of the above program (2) 223344	code. n? (3) 11,22,33,44	
21. Consider the formation of the second	ollowing Pascal program lexam_2022; integer; ; ; ; tput of the above program (2) 223344 pllowing pseudo code seg	code. n? (3) 11,22,33,44	(4) 112233
<pre>21. Consider the for Program of Var a,b : if Begin a := 1 ; b := 1 ; Repeat a := a + 1 b := b + 1 write (a,b) Until a&gt;3 ; End. What is the ou (1) 11223344 22. Consider the for A=5 for B:= 1 to A: = A+ B Next A</pre>	ollowing Pascal program Lexam_2022; integer; ; ; tput of the above program (2) 223344 ollowing pseudo code seg to 5 do	code. n? (3) 11,22,33,44 ment. What is the value of	(4) 112233 of A after this loop execute?
21. Consider the formation of the second	ollowing Pascal program lexam_2022; integer; ; ; ; tput of the above program (2) 223344 pllowing pseudo code seg	code. n? (3) 11,22,33,44	(4) 112233

7^2+(4*2-1)-	4		
(1) 34	(2) 12	(3) 62	(4) 52
24. What is the expe	cted output of the follo	owing pseudo code so	egment?
A=1 B=0 While A<=4 B=A*A A=A+1 Display B End while			
(1) 1 4 9 16	(2) 16	(3)1 2 3 4	(4) 0
25. Which is not a va (1) Text	alid data type in Pascal (2) Integer	? (3) Real	(4) String
	a is manually processe important than inform (2) A and B		king
	n interface configurat	ion at what stage of	f the system development li
cycle? (1) System Analy (3) System Deple		(2) Sys (4) Coo	tem Design ling
28. A process that ta	kes place at the Mainte	enance phase,	
(1) The complete	system is tested for it	s outputs for the give	-
	v, technology into the of main hardware sys		-
	system is totally termin	-	
29. The Category that	at includes only compu	ter languages is,	
· · /	, C, Microsoft Excel		+, MS DOS,PHP
(3) Java, Visual 1	Basic, Windows	(4) Jav	a, C++, PHP
30. Identify the three appear in the cor	-	the System Develop	pment Life Cycle (SDLC) th
(1) Design, Dep	•		ting, Design, Deployment
(3) Design, Main	ntenance, Testing	(4) Coc	ling, Testing, Design

31. Consider the excel sheet given below.

	Α	В	C	D	E
1	10	40	44	85	
2	50	95	56	65	
3	42	87	68	66	
4	65	74	49	68	
5	53	71	80	70	
6	88	54	84	64	
7					
8					
9		Total	1528		

Which of the statement/s is/are correct, to get the total marks?

- A. =sum(A1:D6) can be inserted to the cell C9
- B. =sum(A1:D1,A2:D6) can be inserted to the cell C9
- C. =sum(A1+B1,C2:D2,A2:D6) can be inserted to the cell C9
- (1) A only (2) A and B only (3) A and C only (4) All A,B and C only

32. Which of the following statement is false about MS Excel spreadsheets?

- (1) When hide the columns of the spreadsheet those columns will not display in the visible area of the spreadsheet.
- (2) Text wrapping make all content visible within a cell by displaying it on multiple lines.
- (3) Filtering option will arrange the cells with numbers according to the ascending or descending order.
- (4) Excel allows to span multiple columns and rows
- 33. A formula is needed to be written in cell B2 and copy it to the other cells to find the multiples of 8 as in the excel sheet given below.

d	A	В	С	D	E	F	G	Н	1	J	K
1	X	1	2	3	4	5	6	7	8	9	10
2	8	8	16	24	32	40	48	56	64	72	80

What is the formula that is needed to be insert in cell B2?

(1) =A2\*B1 (2)=A2\*B1 (3) =A2\*B1 (4) =A2\*B1

34. A survey was conducted to find the preference of online learning to traditional learning. Students of grade 10 participated for that and number of students who like each learning method are given in the table below. Finally, results were analyzed and represented graphically with percentages.

	A	В
1	Learningmethod	No of students
2	Onine learning	222
3	Traditional learning	452

What is the most suitable chart type to display the above results?(1) Pie chart(2) Line chart(3) Scatter chart

(4) Bar chart

35. Which of the following is a Boolean expression for the circuit?



(1)  $(A.B).(\overline{A+C})$  (2)  $(A.C).(\overline{A+B})$  (3)  $(A.B) + (\overline{A.C})$  (4)  $(\overline{A+C}).(\overline{A.B})$ 

36. Which of the following is an output for y in the given flowchart?(1) 10, 8, 6, 4, 2, 0(2) 12, 18, 22, 24

(1) 10, 0, 0, 1, 2, 0	(_),,,
(3) 12, 18, 22, 24, 24 (	(4) 14, 20, 14, 26, 26, 24 36.

37. What is the most appropriate iteration structure that can be used to convert this flowchart into pseudo code?

(1) While do loop	(2) Repeat until loop
(3) For do loop	(4) If then else loop



38. What is the output after executing the following array?

```
program FindHouse;
   var str:array[0..3] of string;
   i:integer;
   begin str [0]:='Harward';
   str [3]:='Boake';
   str [1]:='Marsh';
   str [2]:='Hartly';
   for i := 1 to 3 do
      begin
           writeln (str [i]);
        end;
   end.
   (1) Marsh
                (2) Harward
                              (3) Marsh, Hartly, Boake
                                                       (4) Harward, Boake, Marsh
      Hartly
                    Marsh
      Boake
                    Hartly
                    Boake
39. What are the formatting tools used to format the following sentence A, into the sentence B?
   A – computer hardware includes the physical parts of the computer.
   B – computer hardware includes the physical parts of the computer.
   (1)
                       (2)
                             UΙ
                                            (3)
                                                                 (4)
                                                                       abe T
                                                    B abc
                U
           В
40. Which of the following is included only the Word Processing software?
   (1) Microsoft Office Word, Open Office Writer, VisiCalc
   (2) Open Office Writer, Libre Office Writer, Google Sheet
   (3) iWork Pages, Open Office Writer, Office 365 Word
   (4) Kingsoft Office Writer, Open Office Writer, Libre Office Calc
```





(b) Prove that the following Boolean expressions are equal by using truth table.

## $\mathbf{A}.\overline{\mathbf{B}} + \mathbf{B} = \mathbf{A} + \mathbf{B}$

(ix) The following are the slide layout / office themes. Identify the office theme and select the correct answer from the list.

(Title slide / Title and content./ Two content / Comparison /Content with caption)



(x) Following table shows a formatted text in Word Processing Software. Use the given set of tools and write the relevant letter of the tool for each formatting.





- (i) Write down the most suitable chart type available in spread sheet software to draw the above graph. (Pie, line, scatter, Area)
- (ii) Write down the formula that should be entered into cell B2 to get the value of Y?
- (iii) Write the formula that appear in cell F2?
- (iv) After Marking the data range of **A1:H2**, write down the steps to draw the chart shows above.
- (v) Which **chart elements** type you select to display the value of each point in the graph as shown?





(b) The following figure shows how the internet work.



- (i) The IP address notation shown in the figure is separated by a decimal point. Therefore, this notation is called using a special name. Write down the name of the notation.
  - (ii) State that the two main services providing by the ISP and they charge a fee for the service.
  - (iii) The above figure is shows when a URL is entered to the browser to view a website, the request translated to readable written address into an IP address by a server. Write down the full name of the label **A** to translate the correct IP address.
  - (iv) We rarely see the numbers as URL on the internet to view a website. What is the main reason behind this?
- (c) An user can save time, when collecting information from the internet and store those information in the computer using shortcut key. Write down the shortcut keys for the following functions.
  - (i) Name the document and to save
  - (ii) Get a new document
  - (iii) Select the document
  - (iv) Replace words
  - (v) copy letters
  - (vi) Paste letters

(5). Assume that the following database tables are used to calculate the salary of an employee in ABC Company.

## Employee\_Data Table

Name	Emp_No	Туре
K.S. Perera	E001	F
J.L. Dharmasiri	E002	Р
S.J. Withana	E003	F
A.L. Hakam	E004	Р

Hourly Rate

Туре	Rate
F	150/-
Р	100/-

## Worked\_Hours table

Month	Emp_No	Hours
March	E001	120
April	E002	80
May	E003	130
June	E004	100

- i. What is the most suitable table to add the field *Employee\_phone\_number*?
- ii. Which table/s should be updated if a new full time employee joined in month of July named S.K. Lakanath (Emp\_No E005)?
- iii. Write down the updated rows and their respective table names for the updates given (ii) above. (Assume he worked 90 hours in the month of July)
- iv. Assume hourly rate table has updated for the type F 175/- and for the type P 120/-. What are the other relevant tables which need to be updated according to that update?
- v. What tables should be joined to run a query to find out the total salary for J.L Darmasiri for April?
- (6). (a)(i) Consider the following web page about gardening and select the correct tags or parameters from the following list for label numbered 1 -8 in the HTML source code given below and write them down against each number.



List: (li, br, ul, center, align, title, sub, ol, u, h2, color, face, strong, sup)



Management System, HTML, CSS)

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                                                          Grade 11(2<sup>nd</sup> Term)/2021(2022)/80/E-I, II
(7). The following Pascal program uses to enter five students' subject marks and calculate the
   total and display it.
                           program ary 2021;
                           var marks: array [0..4] of integer;
                               i,tot: integer;
                           begin
                           tot:=0;
                           for i := 4 downto 0 do
                           begin
                           writeln('Enter marks');
                           readln(marks[i]);
                           tot:=tot+marks[i];
                           end;
                           writeln('total is
                                                      ',tot);
                           readln();
                           end.
    (a) Answer the following questions according to the above Pascal program.
          (i) How many elements contains of the array?
          (ii) What is the data type of the array?
          (iii) What is the name of the array?
          (iv) Show how the array will display when entering marks 60,90,82,45 and 92
               respectively
                                                     [4]
                                [2]
                       [1]
                                           [3]
              [0]
          (vi)
                What is the output of the above program.
    (b) Consider the following pseudo code.
                 Begin
                 For x = 0 to 9 step 1
                 Marks[x]=x*x
                 Next x
          Enter data to the following marks array according to the above pseudo code?
```