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වය අධ Ed දෙපා Educ	වියන පැවතිනමෙන්තුව Provincial Department of Education වයම පළාත් අධානපන දෙපාර්තමෙන්තුව Provincial Depar					
	පළමු වාර පරීකෂණය - 11 ශේණීය - 2018					
	First Term Test - Grade 11 - 2018					
I	Index No Information & Communication Technology - I Time : One Hour					
	 Note: • answer all question • In each of the question 1 to 40 pick one of the alternatives (1). (2). (3), (4) which is correct of most appropriate. • Mark a cross (X) on the number corresponding to your choice in the answer sheet provided. 					
1.		ii. ABACUS 1- Automatic Sequence Control Calculator				
2.	 Not a feature of a quality information is, i. Timeliness ii. Accuracy iii. Comp 	pleteness iv. Size				
3.		tal and Hybrid is, ii. According to the technology iv. According to speed of the computer				
4.	 4. Consider the following sentence A - Keyboard is an input device B - Joystick is a storage device C - Compact disk is a storage device Which the following statement is / are true ? i. A only ii. B only ii 	ii. A and C only iv. All A, B and C only				
5.		en started ii. In third generation computers iv. in fourth generation computers				
6.	 6. Consider the following statements, A - Thermal Printer is a impact printer B - Ink ribbon used in the impact printers is exp C - Laser printers best suited for obtaining quali Which of the following statements is ? are true? i. A only ii. C only 					
7.	 A <u>disadvantage</u> of computer networking is, Sharing resources Ability to connect anywhere at any time Ability to spread computer viruses to other com Less storage space to store data. 	nputers				
8.	8. Which of the following is a false statement regardin i. The computer must be turned off before connectin ii. Several types of devices can be connected to this iii. The electricity needed for the USB devices is pro- iv. Ability to use devices just after connecting.	ng the keyboard.				
9.	 Firewall is, A device used to store information on a compute A software or hardware that work as a security b network. A device that prevent the entry of computer viru iv. A device used to connect computer in a network 	barrier between internet and a computer				

10.	Which one cannot be the i. three	e base of the number 120 ii. eight	12 is, iii. four	iv. two
11.	The sum of 1010_{two} and t i. 22	he 1011 _{two} is, ii. 16 _{sixteen}	iii. 25 _{eight}	iv. 10011 _{two}
12.	Which of the following i i. 1010 0001	s a BCD number? ii. 1001 0000	iii. 1000 1010	iv. 1001 1011
13.	If the inputs to the logic prespectively? i. 1 and 0 iii. 0 and 0	gate given in the diagram ii. 0 and 1 iv. 1 and 1	are 1 an 0, which answer g	gives the correct outputs
14.	Which answer gives the of to the logic gate in the di i. 0 1 1 0 ii. 0 1 1 1 iii. 1 1 1 0 iv. 0 0 0 1		er when the inputs in the tail $A = B$ A = B C = C A = B O = 0 O = 1 1 = 0 1 = 1	ble are given respectively
15.	When booting the computi. Random Access Memoria. Cache Memory			
16.	Which one is the program idocx	nme file extension from t iijpg	the file extensions given be iii. wmf	low ivexe
17.	An example for a single i. MS DOS	user - multi tasking opera ii. Windows 8	ating system is, iii. Unix	iv. Ubuntu Server
18.		o copy a text or object. o cut a text or object o paste a text or object th	-	iv. A, B and C only
19.	A - Enter Key is the sB - Double click the	shortcut key to select the mouse on that word to se nee, click on the beginnin		ntences and drag till the
20.	Which of the following to page?	ool should be used in a w	ord processing software to	change the orientation of a
	i.	ii.	iii.	iv.
21.	The facilities provided by A - Adding different B - Making different C - Inserting pictures Which of the above state i. A only	colors to background of types of shapes.		iv. A,B and C only

- 22. Which of the following is electronic presentations software which can be taken from the cloud computing service?

 i. Open Office.org Impress
 iii. Microsoft One Drive word
 iii. MS Office 365 Power Point
 iv. MS Office 365 Excel

Students Table	Students Table		Books Table		
Index No.	Name	Grade	Book Name	Book No.	
45507	Amal	10A	Madol D oowa	1007	
45508	Kasun	10A	Hathpana	1008	
45509	Mala	10C	Heensaraya	1009	
45510	Vimala	10D	Sudu Neluma	1005	
Students Book	Table				
Index No.	Book No.	Date of Borrow	Date of Submitted		
45507	1007	2017/05/11	2017/05/29		
45508	1008	2017/05/13	2017/05/31		
45509	1009	2017/05/31	2017/06/13		
45510	1005	2017/06/03	2017/06/20		
Table.	ber, Date/ Time, I	Date/Time	es in the order for the fi ii. Text, Number, Date/ iv. Text, Text, Date/ Tir	Time, Date/Tim	
24. The Primary ke i. Index_ Numb iii. Index_Numb			ts Table is/are? ii. books_Number iv. Date_of Borrow		
25. Which one is us i. table	5. Which one is used to get the information from the relational tables? i. table ii. Forms iii. Queries iv. Reports				
i. The primary k a table. ii. Name of the iii. Records sho	 6. The Correct statement regarding the primary key is, i. The primary key is a combination of two or more columns that is used to uniquely identify a record in a table. ii. Name of the person is an example for the primary key. iii. Records should not be repeated in a primary key field. iv. Primary key field can be empty. 				
7. Which cannot be considers as a characteristic of a database.i. Maximum data redundancyii. Data Consistencyiii. Increasing the efficiency of data manipulationiv. Increasing the accuracy					
28. Which of the fo i. Access	8. Which of the following cannot be taken as an example for a database management system software. i. Access ii. Base iii. Oracle iv. Lotus 123				
netball, Volleyb students for a or i. One to one re	 9. School children play together (group) as extra- curricular activities. There are a few sports in the school as netball, Volleyball, Cricket and one student must have done at least one game. There must be a group of students for a one game. According to the above data the relationship between students and sports tables are, i. One to one relationship ii. One to many relationship iv. No relationship 				
	contain the numbe ed if a cell is having ii. 1234	g"=A1&B2"?	ctively in a spread sheet. iii. 12 34	iv. Display a	n error

31. If you insert '= COUNT (A1:B3)' in a cell of the spread sheet given in the figure question 31, it displays,

i. 5. iii. 4. iii. 3. iv. Display an error

- A
 B

 1
 24
 0

 2
 45

 3
 abc
 25

 4
- 32. If '=AVERAGE (A1: A3, B1)' Is included in a cell in spread sheet given in the figure question 31, it displays,

i. 23	 ii. 34.5
iii.17.25	iv. 69

33. Select the **false** statement from the followings regarding the spread sheets.

i. The formula should be started with "=" sign.

- ii. Cell addresses should be given by separating commas in the "Sum ()" function But nearby cells could be given as a cell range.
- iii. Cell addresses given by separating commas is the same as the giving cell addresses as a cell range in a function.
- iv. "=" sign must be used at the beginning of a function.
- 34. The answer to 19 MOD 20 is:
- i. 19. ii. 20 iii. 1 iv. 0
- 35. The output of the following program segment is,

Write ('saman'): Write (75): Writeln ('Amal): Wtire (79) i. Saman 75 Amal 79 ii. Saman 75 Amal 79 iii. Saman 75 Amal 79 iv. Saman 75 Amal 79

iii.Bool=False

36. Which is not a valid identifies in Pascal programming language?i. Numii. Num1iii. Num 1

iv. Num#

37. What is the output of the following segment of a pascal Programme?
i. 012345
ii. 12345
iv. cannot compil

iv. cannot compile because of an error

- 38. what will be the output in expression 20 DIV 6 in a Pascal program?
 I. 2
 ii. 3
 iii. 4
 iv. 3.33333333338+000
- 39. What is the output of the Pascal statement, Writeln (234.56); ?
 i. 2.345600000000E+002
 ii. 234.56
 iii. 234
 iv. 2.34500000000E-002
- Program abc; Var n:InTeGeR; Begin n: =0; While n< = 5 do Begin Write (n);n:=n+1; end; Write (n); End.

40. A valid statement to assign a value to the Boolean variable Bool is, i. Bool := faLsE; ii. Bool:='True';

04

iv. True:=Bool;

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වථ ^ක ුද්ධිතාපන දෙපාර්තමේන්තුව Provincial Department of Education වයඹ පළාත් අධානපන දෙපාර්තමේන්තුව Provincial Department of Education වයඹ පළාත් අධානපන දෙපාර්තමේන්තුව Provincial					
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ස්ක්රීමේන්තුව Provincial Department of Edu@යඹාපළාත්හා අධානාපතාවේදීපාර්තමේන්තුව් provincial Department of Education වයම පළාත් අධානපත සේක්රීම පළාත් අධානපත දෙපාර්තමේන්තුව Provincial Department of Education වයම පළාත් අධානපත දේපාර්තමේන්තුව Provincial Department of Education වයම ප තුව Provincial Department of Education Frowincial Department cob Education - NWAP ධනපත දෙපාර්තමේ 80 E II of					
Education වයඹ පළාත් අධාාපන දෙපාර්තමේන්තුව Provincial Department of Education වයඹ පළාත් අධාාපන දෙපාර්තමේන්තුව Provincial Department of Education වයඹ පළාත් අධාාපන දෙපාර්තමේන්තුව					
පළමු වාර පරීකෘණය - 11 ශේණීය - 2018					
First Term Test - Grade 11 - 2018					
Thist term test - Oldue 11 - 2018					
Index No Information & Communication Technology - II Time : 2 Hours					
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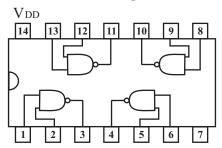
- First question carries 20 marks and each of the other questions carries 10 marks.
- 1. Give short and **exact** answers.
 - 1. Vikum who has the computer spare parts selling business obtains a financial report at the end of the day by calculating the daily sales and purchases. Name an;
 - a. Input Device
 - b. Output device

that the Vikum can use to perform this task.

- 2. Write two major differences between the QR code and the bar code which use to get information about the consumer goods.
- 3. Consider the following table about the e-Government applications. Match the items in the first column appropriately with the items in the second column, and state the pairs of labels in your answer sheet.

First Column	Second Column
A. Give Sri Lankan Custom information to other countries.	P. G2E
B. Provide Information about commercial organizations to the businesses.	Q. G2G
C. Issuing circulars to government employees.	R. G2C
D. Renewal of vehicle licenses.	S. G2B

- 4. State a difference between the switch and the Hub used in the computer networking.
- 5. If X=10010 two and Y=1111 two, find the hexadecimal equivalent of X+Y.
- 6. Briefly explain why does the Unicode System is necessary for representing data in computers.
- 7. The figure shows an integrated circuit which has 14 pins.



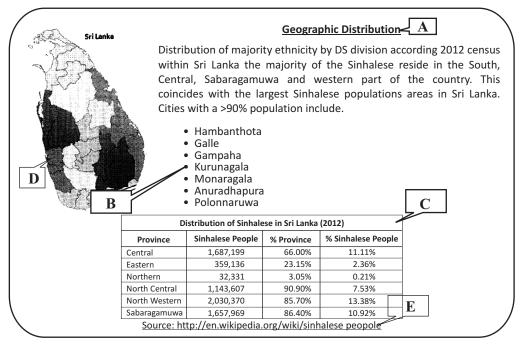
When the input values of 0, 1, 1, 1, 1, 0, 0, 0 to the pins. 1, 2, 5, 6, 8, 9, 12, 13 respectively are given, what are the output values for the pins 3, 4, 10, 11 respectively.

- 8. Write three security management functions of an operating system.
- 9. The Student intends to create a program to find the perimeter of a rectangle. Mention the solution space by analyzing the problem.

10. Find the output of the Pascal program given below.

```
Program exercise;
var
a,b:integer;
begin
a:=o;
for b:=1 to 7 do
begin
a:=a+b
writeln (a);
end;
readln;
end
```

- 2. A phrase of music is created by arranging a sequence of different musical notes. A beautiful picture is created by using different lines and colors.
 - i. State the data and information separately by reading the paragraph given above.
 - ii. Give a device that can be connected to each of the ports mentioned below. Ps/2 Port, HDMI Port, USB Port, Serial Port, Parallel Port
 - iii. There are three data transmission modes according to the direction of transmission. Name those three modes and describe each of them.
 - iv A diagram of a computer networking is given below.
 - a) What is the networking topology of the given diagram?
 - b) Mention two advantages and two disadvantage of a network topology mentioned above.
 - c) A hub has been used to connect computers in the above network. Give another device that can be used instead of the hub.
 - d) That network is in a small area. Name the type of network that spreads in a small area.
 - e) Name two guided media that can be used to build that network.
- 3. A) Answer the questions regarding the word processing documents given below.



- i. What are the tools used to format the text shown in the lable A?
- ii. What is the tool used to format the list shown in the lable B?

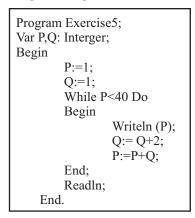
- iii. What is the tool used to join the cells shown in the lable C?
- iv. Wtrie the steps in the order to insert the image shown in the lable D?
- v. what is the tool used to format the text to connect to another website shown in the lable E?
- vi. What is the shortcut key used to get the tool given in part (V) above?

B. Write two advantages of using electronic presentation software instead of conventional presentation.

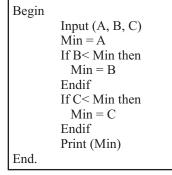
4. A part of spreadsheet used to calculate the salaries of the employees in the Lakdinu furniture sales company is given below Rs. 100 commission is paid for each sales unit in addition to their basic salary.

	А	В	С	D	Е
1		lers			
2	Commission per unit			Rs. 100.00	
3	Name	Basic salary	No. of units sold	Commission	Total salary
4	Sachintha	Rs. 5,000.00	25	Rs. 2,500.00	Rs. 7,500.00
5	Isria	Rs. 4,700.00	36	Rs. 3,600.00	Rs. 8,300.00
6	Dimal	Rs. 5,300.00	42	Rs. 4,200.00	Rs. 9,500.00
7	Mohomad	Rs. 3,850.00	38	Rs. 3,800.00	Rs. 7,650.00
8	Indiraj	Rs. 6,200.00	32	Rs. 3,200.00	Rs. 9,400.00
9	Total Expenditure for paying Salaries				Rs. 42,350.00

- i. What is the formula that should be in D2 cell to calculate the commission of Sachintha? It should be able to copy this formula from D5 to D8 to get correct values of them. (Commission = No of sales units * Commission per unit)
- ii. Write the steps to complete the commission column?
- iii. State the formula that should be in E2 cell to calculate the total salary of sachintha? (Total Salary = Basic salary + Commission)
- iv. what is the suitable chart type to show the commission of each employee?
- 5. A) State the output generated from the Pascal Programme given below



B. The pseudo code given below is to output the smallest number from the three numbers A,B and C taken as inputs. Draw the flow chart for this pseudo code.

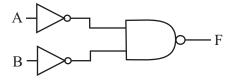


6. Several tables in relational database of a school database have given below. Answer the questions asked about it.

Book Table				
Book ID	Name	Borrowed		
B5001	Sirimath	Yes		
B5002	Hathpana	No		
B5003	Metigedara	Yes		
B5004	Heesnsaray	ra Yes		
Student Table				
Std_ID	Name	Grade		
S3521	Seetha	10A		
S3522	Amal	10B		
S3523	Piyal	10A		

Borrowing Table			
Book_ID	Std_ID	Borrowed Date	
B5001	S3521	2017/05/03	
B5003	S3523	2017/05/12	
B5004	S3521	2017/05/16	

- i. Give two primary key fields with the relevant table from the above tables.
- ii. The book " Ambayaluwo" has been added to the school library under the book number B5005 on 2017/06/06
 - a. Which tables are updated, when that data is added?
 - b. State those updated records with relevant tables (It's adequate to the seperate data included in the table from commas)
- iii. New membership has been taken by the "Ranil" under the number S3524 on 2017/07/03. He has borrowed the book" Hathpana" on the same day
 - a. What are the tables updated when entering that data?
 - b. State those updated records with relevant tables. (It's adequate to separate the data included in the table from commas)
- 7. A) A logic circuit of logic gates has given in the following diagram. Answer the questions about it.



- i. Name the two types of logic gates in the circuit diagram.
- ii. Find the Boolean logic expression for the output "F" in terms of inputs.
- iii. Draw a truth table for the Boolean logic expression taken in the above (part ii)
- iv. What is the basic logic gate represented from the above logic circuit?
- B) A seven bit code 100 0001 is used in an operating system to represent the letter "A"
 - i. What is the acronym (Short from of the name) used for that coding system?
 - ii. What is the decimal number represented from this binary number 100 0001?
 - iii. What is the binary code used to represented the letter "C" provided the letter "A" is represented by the binary code 100 0001 ?