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Sabaragamuwa Provincial Department of Education

පළමු වාර පරීක්ෂණය 2018
1st Term Test 2018

11 ශ්‍රේණිය
Grade 11

තොරතුරු හා සන්නිවේදන තාක්ෂණය
Information and Communication Technology

පැය දෙකයි
Two hours

- Answer **first** question and, **Four** other questions only.
- First question carries **20** marks and each of the other questions carries **10** marks

1)

- i. Write two applications of internet in education sector .
- ii. Write two file format for graphic files.
- iii. Name two data types to include numbers in Pascal Programming
- iv. Write two differences between Dot-matrix printer and Laser printer
- v. Name two examples for system software and application software
- vi. Write two advantages of E-mail than normal mail
- vii. Name four categories of computer according to the size
- viii. Consider the following statements.
 - Giving an algorithm by graphic symbols is 1.
 - Giving an algorithm by a language is 2.

Write suitable words for 1 and 2 from the below list.
(pseudo code / flowchart)

- ix. Copy the A and B charts to your answer script and match with arrows.

A
Compiler
Object programme
Interpreter
Source programme

B
Programme after the translation
Translating commands one by one in to machine language
Basic programme to use translation
Translating all the commands of the programme at ones

- x. Consider the following two columns .

1 column	2 column
A	An input device
B	Fastest and highest capacity computer in the world
C	Control all operations of the computer
D	Computer which operates according to analog signals and digital signals

Write suitable words for A,B,C,D from the below list.

(Super computer, Joystick, Control Unit, Hybrid computer)

- 2) Ravindra is a super market owner. He wants to buy a computer for the work of business and to use internet to make easy his business activities.
- Write two advantages that he gets when using a computer based system than a manual system.
 - Write two data collecting methods to the new system.
 - Mention a software that can be used to data management.
 - Describe a advantage when he connects his database to the internet.
 - When a new employer of the shop enters to the system which step and status of the SDLC follows.

- 3) A person who have deposited his money in Kegalle branch of the NSB bank . He wishes to withdraw his money from the Galle branch.
- Which network can be used for that?
 - Write down the classification according to the physical layout of a network.
 - Note down the difference between LAN and WAN .
 - Write down 02 advantages and 02 disadvantages of computer networking.
 - Name two data transmission media.

- 4) To teach the following things for primary students in an attractive way, a teacher used four bulbs.

⊗ 0 0 0 Raise hands
 0 ⊗ 0 ⊗ Put hands down
 0 0 ⊗ 0 Run to the front.
 ⊗ 0 0 ⊗ Stop

- Considering lighted bulbs as 1 and Considering none lighted bulbs as 0. Write the binary number for **raising hands** and **run to the front**.
- Write the 83₁₀ in BCD Code Format.
- Write two other coding systems used for computer data representation.
- Create the truth table for $(\overline{A} \cdot B) + (A \cdot \overline{B})$
- Draw the logic circuit for the above truth table.

- 5) Write answers using following spread sheet.

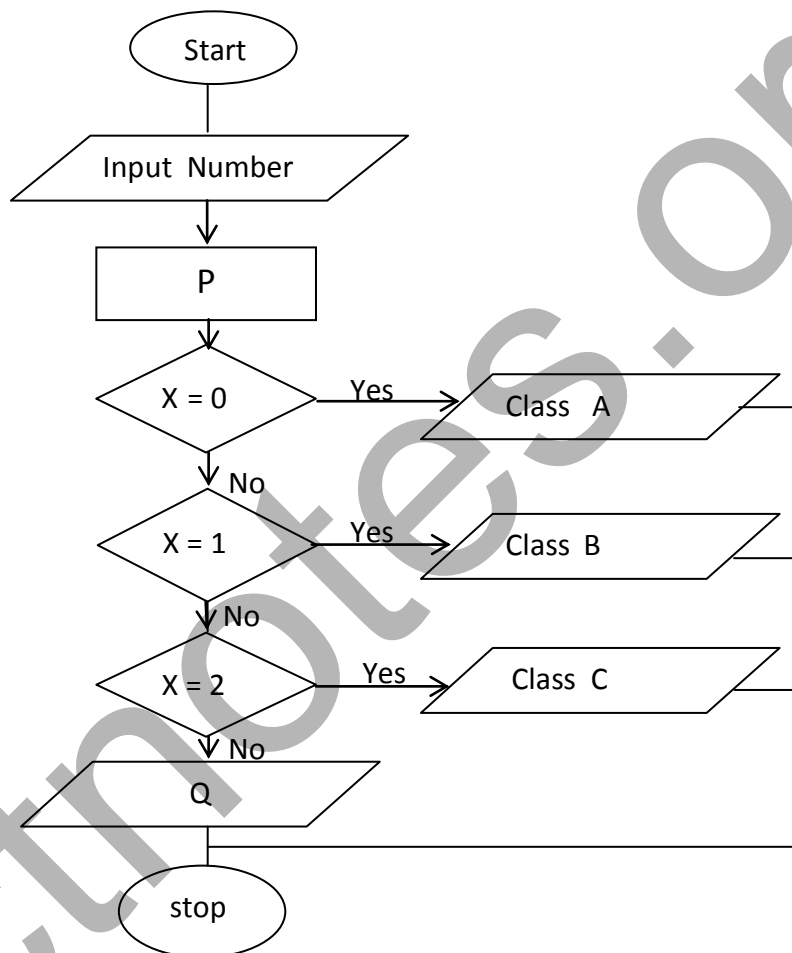
	A	B	C	D	E	F
1	Item	Unit cost (Rs)	Quantity	Total cost (Rs)	Discount	Final cost (Rs)
2	CD	Rs30.00	10	Rs300.00	5%	Rs285.00
3	DVD	Rs50.00	8	Rs400.00		Rs380.00
4	Pen Drive	Rs1,500.00	5	Rs7,500.00		Rs7,125.00
5					Total	Rs7,790.00
6						

- What is the function that can be used to find the final cost on the cell F2?the function may also can be used to find final costs of other items.
- What is the function of the F3 Cell when the function of cell F2 copied to cell F3.
- What is the function that can be used to find the final total on cell F5.
- What is the best suitable chart type can be used to describe the Item Unit cost.
- Name two spread sheet software.

6)

A) Index number of grade 8 students divide from 4 and categorize them in to four classes according to the rest. As following flow chart when dividing the number the rest shows the MOD.

The rest dividing from 4	class
0	A
1	B
2	C
3	D



- What are the statements for P and Q in this flowchart ?
- What are the control structures used in the above flowchart?
- What is the data type for variable X ?

B)

- Draw a flowchart to print all numbers from 1 to 10
- Write the pseudo code for this flowchart.