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Provincial Department of Education - NWP

දෙවන වාර පරීක්ෂණය - 09 ශ්‍රේණිය - 2024
Second Term Test - Grade 09 - 2024

Information and Communication Technology | 01.30 Hours

Name/Index Number

01. Which of the following user types does not belong to the system user type?
    1) Programmer
    2) Network Administrator
    3) Computer Application Assistant
    4) Web developer

02. "................... is a computer that is placed and used in a specific location." The most appropriate type of computer that is suitable for the blank space is,
    1) Desktop computer
    2) Laptop computer
    3) Mobile phone
    4) Notebook computer

03. Which of the following is a peripheral device that can perform both input and output functions?
    1) Flash drive
    2) Display
    3) Keyboard
    4) Touch screen

The following denotes some details of a computer system. Answer the questions 04 and 05 considering these given data.

System > About

Processor	AMD Ryzen 7 5800H with Radeon Graphics	3.20 GHz
Installed RAM	16.0 GB (15.3 GB usable)	
Device ID	99712CF2-5FBA-40C6-812D-03401AB7671B	
Product ID	00342-42593-09274-AAOEM	
System type	64-bit operating system, x64-based processor	
Pen and touch	No pen or touch input is available for this display	

04. What is the type of processor used in this computer?
    1) AMD
    2) Ryzen 7
    3) CPU
    4) 3.20GHz

05. What is the main memory capacity of this computer?
    1) 2 GB
    2) 4 GB
    3) 8 GB
    4) 16 GB

06. A peripheral device that cannot be connected to the computer using USB port is,
    1) Printer
    2) Display
    3) Mouse
    4) Webcam

07. A commonly used operating system in mobile devices like smart phones is,
    1) Linux
    2) Ubuntu
    3) Android
    4) Windows

08. What is not a free and open source operating system?
    1) Linux
    2) Ubuntu
    3) Android
    4) Windows

09. A non-technical specification to be considered when buying a computerise,
1) Screen size   2) After sales service   3) Hard disk capacity   4) Type of processor

10. Which of the following is labeled in English characters in a worksheet?
1) Row   2) Cell   3) Column   4) Cell Range

11. The type of chart shown by this figure is,
1) Bar chart   2) Column chart   3) Line chart   4) Pie chart

12. Which function is used to get the number of numeric values in a range of cells and the number of cells containing characters?
1) Count   2) CountA   3) Sum   4) Max

13. The correct way to write a function in a spreadsheet is,
1) = SUM (A1:C1)   2) SUM = (A1:C1)   3) SUM (A1:C1)   4) = SUM[A1:C1]

14. Which of the cell formatting tool is used to italicize text?
1) Bold   2) Italic   3) Underline   4) Wrap Text

15. The answer for the shaded area in the worksheet as a cell range is,
1) A1:C1
2) B2:D2
3) B2:D3
4) C2:D3

16. What should be identified when analyzing a problem?
1) Input   2) Process   3) Output   4) All of the above

17. The best flowchart symbol that suits the statement "Output the number" is,
1)
2)
3)
4)

18. Nested repetition includes:
1) Selection within selection   2) Repetition within selection
3) Repetition within repetition   4) Selection within repetition

19. The following structure is used in Scratch
1) for selection
2) for continuous repetition a fixed number of times
3) for continuous repetition to satisfy a given condition
4) for endless repetition

20. The data structure that is used to store a large number of values using a single name is a/an
1) array   2) symbol   3) variable   4) program

(2x20=40 marks)

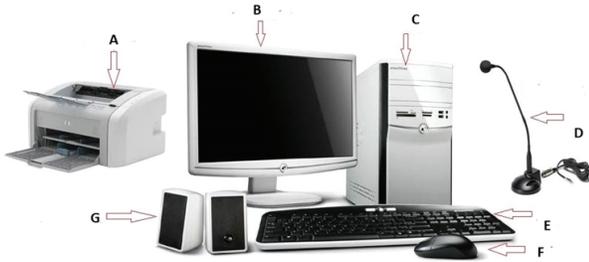දෙවන වාර පරීක්ෂණය - 09 ශ්‍රේණිය - 2024
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Part II

* Answer all questions.
* Use a separate sheet for answering.

01.
i. Name the following devices labelled with English letters.

(07 marks)

ii. Match the following users with their task.

user	Task
Programmer	Develops and maintains websites
Network Administrator	Develops computer programs
System Analyst	Develops software
Software Engineer	Manages and maintains computer networks
Web developer	Designs information systems

(05 marks)

iii. Name 3 technical specifications and 2 non-technical specifications to be considered when buying a computer. (05 marks)

iv. Mention 3 types of warranty that the consumer gets while buying a computer. (03 marks)

(Total 20 marks)

02. Answer the following questions based on the spreadsheet given below.

i. Write down the function that should be entered in cell F3 to calculate the total marks obtained by Amal.

ii. Write down the function that will appear in cell F5 if the same formula (mentioned in i.) was used to get Namal's total score.

iii. Write down the function that should be entered in cell G3 to calculate the average marks obtained by Amal.

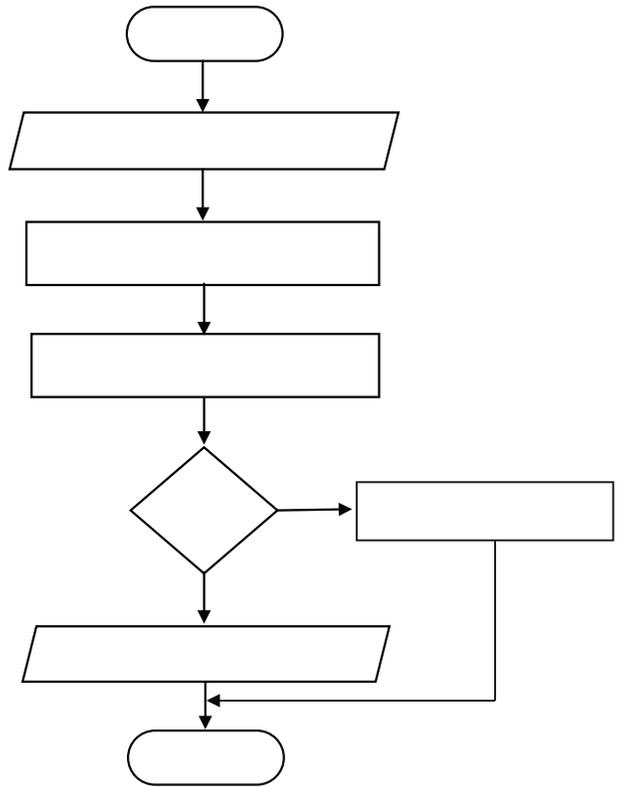|	A	B	C	D	E	F	G
1	Marksheet – Grade 09						
2	Name	Science	Maths	Sinhala	English	Total	Average
3	Amal	50	55	60	63		
4	Kamal	70	72	60	65		
5	Namal	75	74	68	78		
6	Wimal	80	78	85	88		
7	Piyumal	79	85	83	80		
8	Lakmal	78	77	80	87		
9	Maximum Mark						
10	Minimum Mark						

iv. What is the function that should be entered in cell B9 to find the highest mark obtained for Science?

v. What is the function that should be entered in cell C10 to find the lowest mark obtained for Maths?

(3x 5 = 1 5 marks)

03. When the name and the marks of the 3 subjects of an A/Level student are entered, it should calculate the total and the average marks of the 3 subjects. If the total mark is greater than 150, it should display "Very good" else it should display "You should work hard".

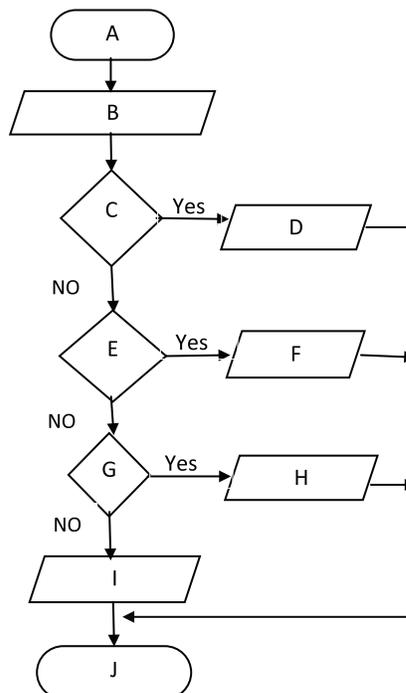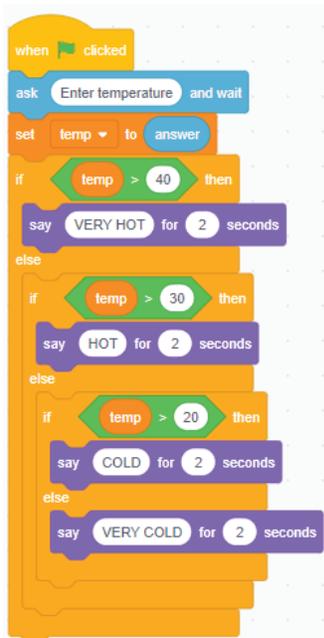Draw a flowchart to display this scenario by using the below given format and words from the list.

(Calculate Average,Calculate Total,
Display 'Very good', Is total greater than 150?,
Display 'You should work hard', Enter marks of 03 subjects,Yes,No, Start, Stop)

04. Below is the scratch program related to display the temperatures of the day as,
"VERY HOT" if the temperature is above 40° C,
"HOT" if the temperature is above 30° C,
"COLD" if the temperature is above 20° C,else "VERY COLD".
The corresponding incomplete flowchart is also given below. Write the appropriate words for the labels indicated by English letters. (10 marks)

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Answer

Name/Index Number

Part I

Question no	Answer	Question no	Answer	Question no	Answer	Question no	Answer
01	3	06	2	11	2	16	4
02	1	07	3	12	2	17	1
03	4	08	4	13	1	18	3
04	2	09	2	14	2	19	4
05	4	10	3	15	3	20	1

Part II

01 i A – Printer

B – Display/ Computer screen

C – System unit

D – Microphone

E – keyboard

F – Mouse

G – Speakers   (7 marks)

ii Programmer   - Develops computer programs

Network Administrator   - Manages and maintains computer networks

Systems Analyst   - Designs information systems

Software Engineer   - Develops software

Web Developer   - Develops and maintains websites   (5 marks)

iii a. Technical specifications   b. Non-technical specifications

Type of processor

Processor speed   Computer price

Type of computer screen   Warranty

Computer screen size   Services after sale

Hard disk capacity   Company reputation

Main memory capacity   *Any 2

Installed software

* Any 3   (5 marks)

iv.   Manufacturer warranty
      Extended warranty
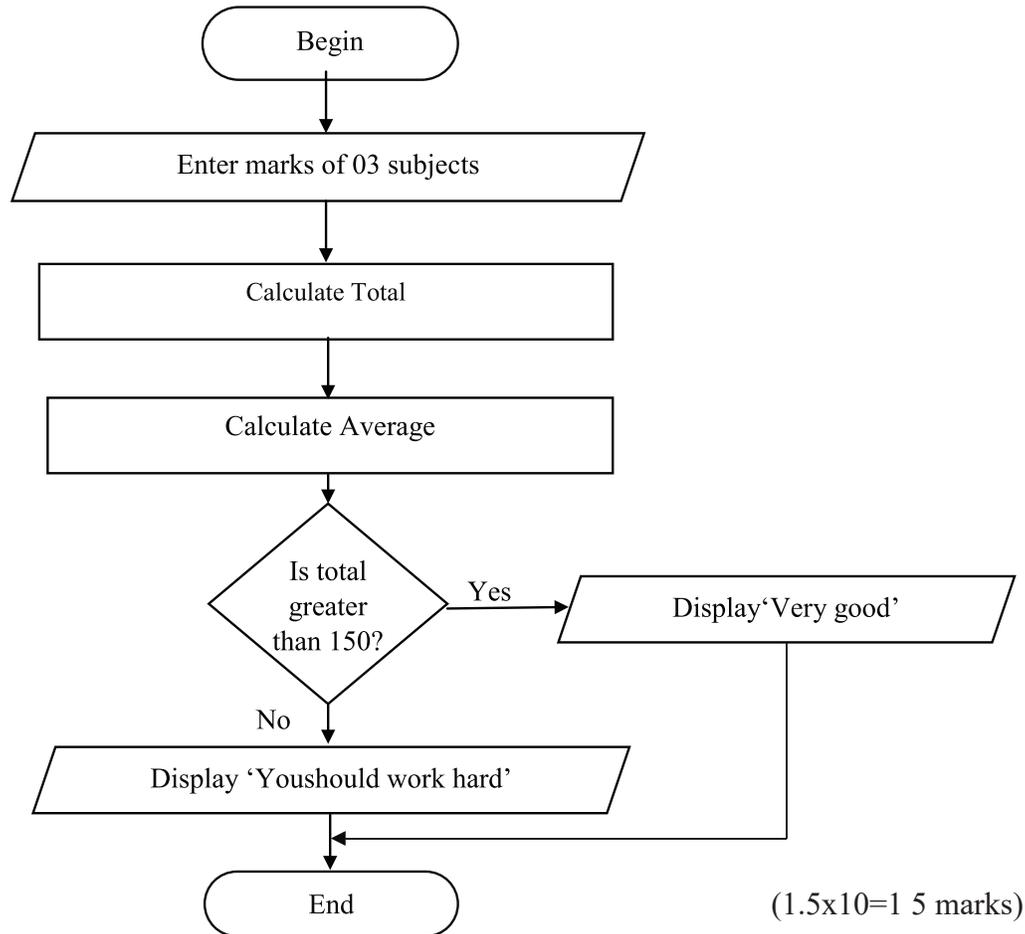   On site warranty   (3 marks)
                                                              (Total Marks 20)

02.
      i . = SUM(B3:E3)
      ii. = SUM(B5:E5)
      iii. = AVERAGE(B3:E3)
      iv. = MAX(B3:B8)
      v. = MIN(C3:C8)   (3x5= 1 5 marks)

03.

(1.5x10=1 5 marks)

04.   A   –   Start
      B   –   Enter the temperature
      C   –   Is the temperature above 40˚ C ?
      D   –   Display "VERY HOT".
      E   –   Is the temperature Over 30˚ C ?
      F   –   Display "HOT".
      G   –   Is the temperature above 20˚ C ?
      H   –   Display "COLD".
      I   –   Display "VERY COLD".
      J   –   Stop   (1x10= 1 0 marks)