



Nalanda College - Colombo 10

Unit Test Project

Grade 9

Information and
Communication Technology

Unit 1: Preparation of
computer Specifications

- **Answer all the questions.**

01.) State a definition of the user.

02.) Fill the blanks of the below sentences by using the correct word.

- I. uses office application packages for office related tasks.
- II. Users can be classified mainly into two categories. They are..... and.....
- III. is the one who develops the computer programs.
- IV. Manages and maintains computer networks are done by

03.) State 04 examples for user requirements.

04.) Computers can be classified according to their nature and use. State the 02 types and give 02 examples for each separately.

05.) Match the following.

Desktop computer

Smart Phone

All in one computer

Tablet computer



- 06.) What do you mean by a computer peripheral device?
- 07.) State 04 examples for computer peripheral devices.
- 08.) What is a Specification?
- 09.) Write down the task of the Processor.
- 10.) State 02 units used to measure the speed of the processor.
- 11.) Write down 03 processor manufacturing companies.
- 12.) State 03 specifications that we need to consider, when we are purchasing a processor.
- 13.) Fill in the blanks using the correct word from the given words.

(Secondary Memory, Output, Size, Technology, Main memory, Video Graphic Adapter, Light Pink, Light Blue, Light Green, Sound Card, On board, Separate VGA)

- I. is used to listen to music and to record audio.
- II. colour port is used to connect speaker or headphone.
- III. Colour port id used to feed sound with external devices.
- IV. To connect the microphone to the computer we use Colour port.
- V. The output is fed to the monitor via
- VI. There are two types of VGAs. They are and
- VII. Data and instructions are stored temporarily in
- VIII. The Hard Disk is the main device.
- IX. The main device of a computer is its monitor display.
- X. Specifications of the monitor areand

- 14.) What is the important fact need to be considered when buying a desktop computer or a laptop?
- 15.) What are the basic specifications for a computer and peripheral devices?
- 16.) What are the non- technical factors to be considered in purchasing a computer?
- 17.) State 03 after sale services provided by computer sales centers to the customers.
- 18.) Study the specifications in the following table. Answer the questions given below.

Processor	Intel(R) Core (TM) i5-8250U CPU @ 1.60GHz
Random Access Memory	8 GB
Hard Disk Capacity	4 GB
Computer Screen	19.5"
Operating System	Windows 10
Guarantee Period	2 Years
Price	Rs. 105,000

- I. State 03 technical specifications of the computer.
- II. Give 02 non- technical specifications when buying a computer.
- III. State the speed of the Processor.
- IV. Give the capacity of the main memory.
- V. State the type of the processor.
- VI. Give the capacity of the Hard Disk.
- VII. State the size of the screen.

- 19.) State 03 capacities of Hard Disk.
- 20.) State 03 types of Processors.
- 21.) State 04 Peripheral Devices that can be connected via USB Port.



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Unit 2: Electronic
Spreadsheets

- Answer all the questions.

01.) What is a Spreadsheet?

02.) State 06 common Tools in Spreadsheets.

03.) Match the following.



Print Preview



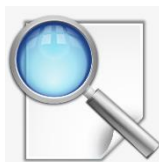
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Cut



Paste



Spelling Checker



Print

04.) State special features of a spreadsheet.

05.) Write the function of the below tools.



06.) Write 05 Alignment and Positioning tools.

07.) State 04 function of the spreadsheet and write the task of it separately.

08.) Draw 06 charts that can be displayed in Electronic Spreadsheet and name them.

09.) Write the steps of getting a new window in the Electronic Spreadsheet.

10.) Write the steps of saving a pre-saved file in a different name in Electronic Spreadsheet.

11.) Create the following table in the Electronic Spreadsheet and find the Total and the Average of marks got by each student.

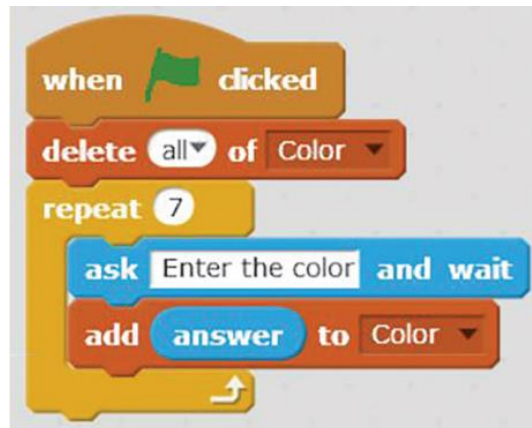
No	Name	Maths	Science	English	History	Sinhala	Tamil	Buddhism	Total	Average
01	Nimal	65	68	88	60	50	84	98		
02	Sunil	55	69	87	6962	96	96	85		
03	Kamal	78	74	78	52	98	95	84		
04	Aruna	95	72	75	51	95	42	82		
05	Malki	63	65	84	62	93	51	54		
06	Kavini	15	34	87	57	46	80	15		
07	Kavishka	87	56	98	58	52	60	64		
08	Malani	54	55	87	65	65	30	65		
09	Udara	66	96	55	54	58	84	78		
10	Ruwani	48	84	62	52	87	85	97		



- **Answer all the questions.**

- 01.) What is an Algorithm?
- 02.) There are two ways in representing an Algorithm. State the 02 ways.
- 03.) What is a Flow Chart?
- 04.) A Flow Chart can be displayed in 03 Control Structures. Name 03 Control Structures.
- 05.) What is Simple Selection.
- 06.) Draw a flow chart by using simple selection.
- 07.) What is Repetition?
- 08.) Draw a flow chart using Repetition control structure to display numbers from 1 to 15.
- 09.) There are 03 repetition control structures to build scratch programming. State 03 scratch repetition control structures and give examples.
- 10.) Create a multi- coloured circle using coloured lines in Scratch Programming.
- 11.) What is a Nested Repetition?
- 12.) What is an Array. Give an example for that.
- 13.) Write down the steps of building up an array in Scratch Programming.
- 14.) Construct a suitable program based on an array to output seven days of the week. Name the Array as “Day”.

15.) Answer the following question.



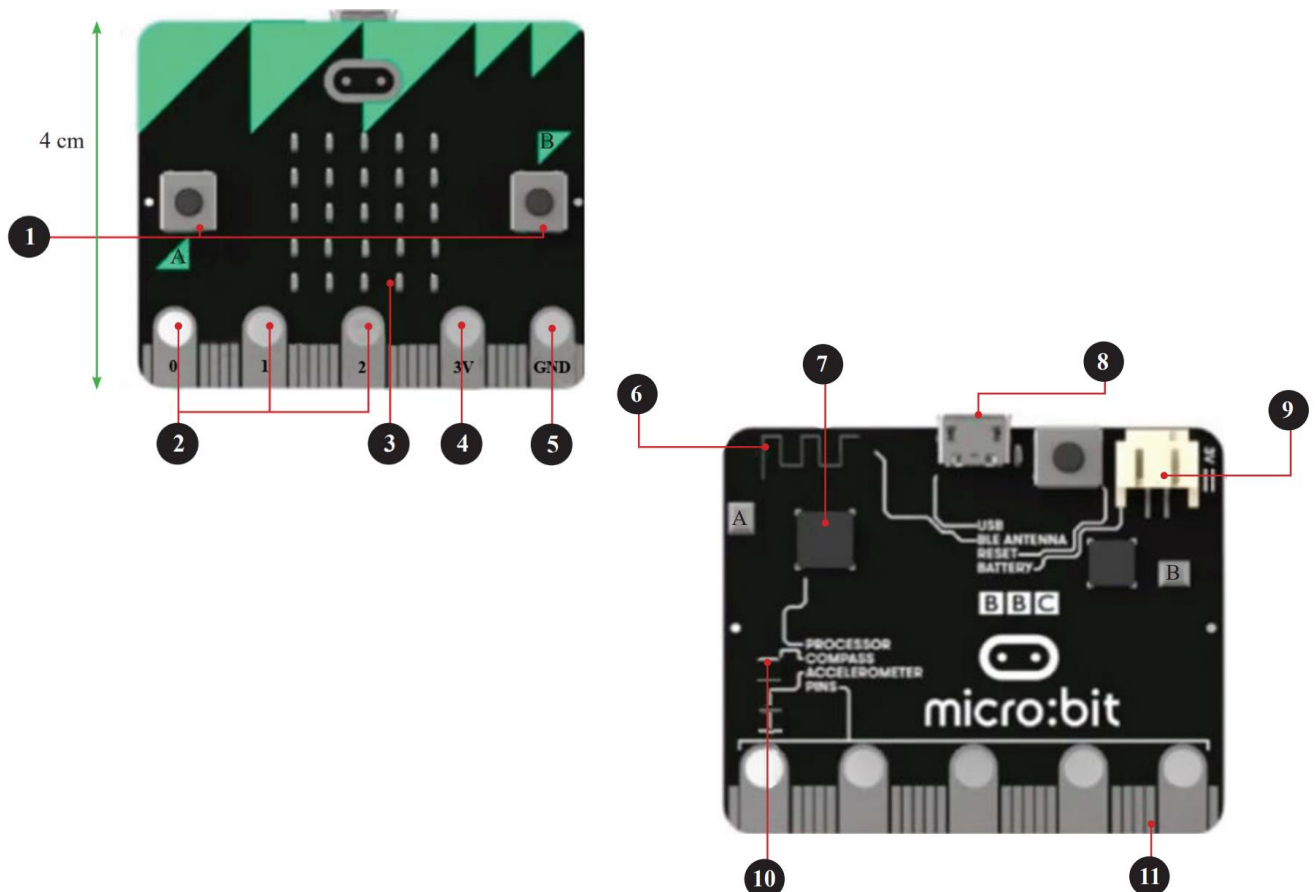
I. How many times the above program is repeated when it is executed?

16.) State the 03 types of Nested Repetition.

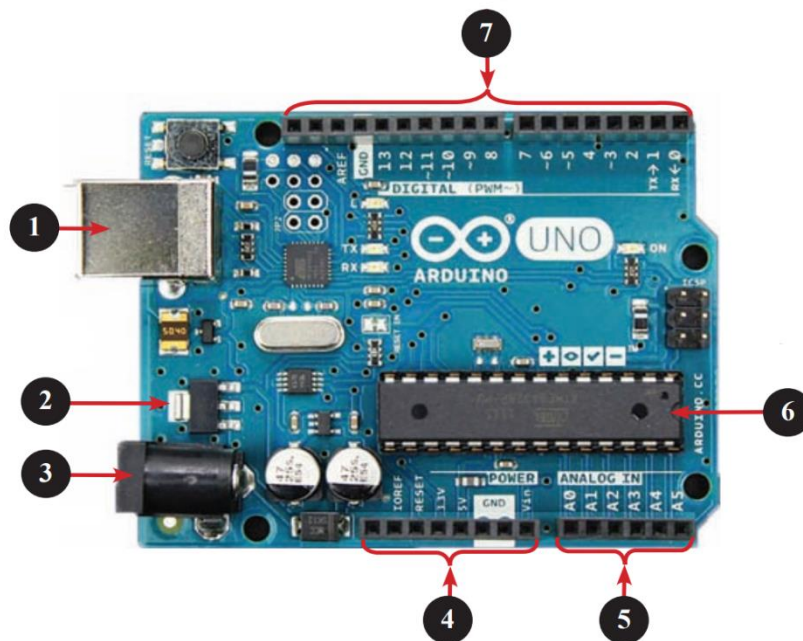


- Answer all the questions.

- 01.) What is a Microcontroller?
- 02.) There are 04 components of a microcontroller. State the four types and briefly explain them.
- 03.) What is a Sensor?
- 04.) State 03 equipments that use sensors and micro controllers.
- 05.) What is a micro: bit?
- 06.) Given below shows the front and rear view of a micro – controller module. Name parts shown from 1 to 11.



- 07.) How to connect micro bit controller module to the computer?
- 08.) What is an Arduino?
- 09.) What is the task of an Arduino?
- 10.) Name the parts of an Arduino Board and state the functions of each component.

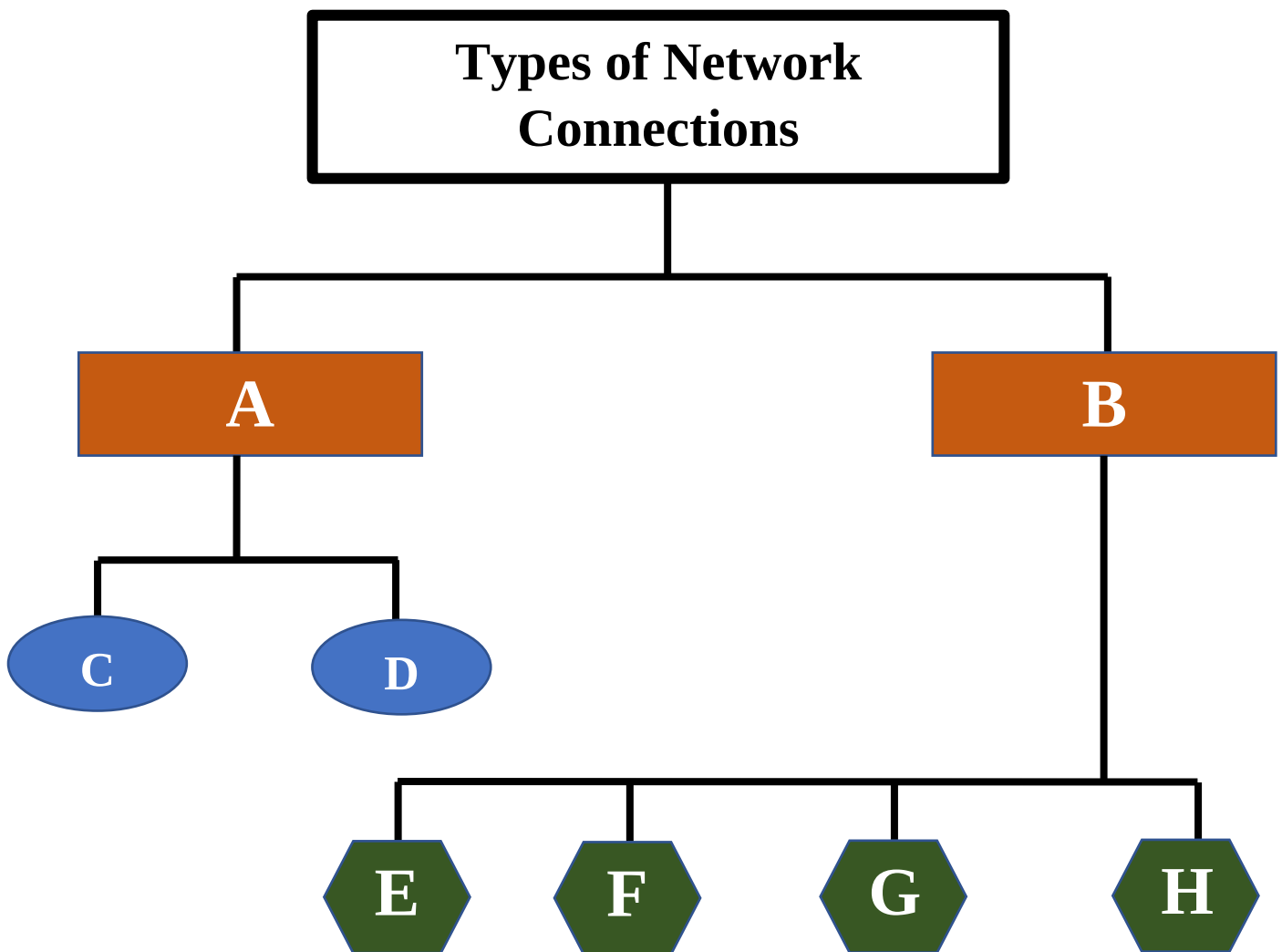


- 11.) Name 04 types of Arduino Boards that used at Present.
- 12.) State 03 peripheral devices connected to the micro controllers.
- 13.) There are 02 types of Sensors. State the two types and briefly explain them.



- Answer all the questions.

- 01.) What is a Computer Network?
- 02.) State the advantages of using a computer network.
- 03.) Fill in the blanks by using correct words.



- 04.) State 04 Basic devices that requires for computer Network and explain those devices briefly.
- 05.) Write down an advantage of using a router.
- 06.) State the basic objectives of using computer Network.
- 07.) There are devices shared in a network. Name 02 devices.
- 08.) Write down 03 advantages of using peripherals in common.
- 09.) What is Command Line Interface (CLI)?
- 10.) Draw a computer network and name the parts.
- 11.) Write down the task of the Switch.
- 12.) State 03 services of the server.



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Unit 5: ICT and Society

- **Answer all the questions.**

- 01.) Explain briefly how to use Information and Communication Technology in the school.
- 02.) How to use Information and Communication Technology in the Hospital.
- 03.) State 05 methods of using ICT in Public Services.
- 04.) What is Digital Divide?
- 05.) What is an Electronic Waste?
- 06.) State 05 harmful electronic waste items.
- 07.) State some Toxic poisons released from e-waste and write down the harmful effects of those poisons.
- 08.) What is 3R and explain them briefly.
- 09.) State 02 electronic waste materials that can use again and again.
- 10.) What steps can be taken to minimize the digital divide in the society?
- 11.) Write True / False in front of each statement.
 - I. Designing, developing and maintaining websites are the tasks of the Graphic Designer.
 - II. E-waste does not pollute our environment.
 - III. Programmer develops computer programs using programming languages.
 - IV. Software Engineer is the one who advises organizations on the matters related to Information and Communication Technology.

12.) Fill in the blanks by using the correct word.

- I. carries out tasks to assure that the software functions properly.
- II. Installing, configuring and maintaining computer networks are done by
- III. is an example for a harmful electronic waste item.