

- (14) Which of the following value is not equivalent to $1AF_{16}$?
 a) 431_{10} c) 110101111_2
 b) 567_8 d) 657_8 (.....)
- (15) Which one is a valid address of a web site?
 a) <http://www.cnn.com> c) <http://www.cnn.com>
 b) <http:/www.cnn.com> d) <http:\\www.cnn.com> (.....)
- (16) When you send an email message, where it is stored on until the recipients receive it?
 a) Protocol c) Mailbox
 b) Backbone d) Mail server (.....)
- (17) When you receive an email message, what is the operation that you can do to send this message to someone else other than the person who sent it?
 a) Reply c) Copy
 b) Forward d) Store (.....)
- (18) Google falls under:
 a) Operating System c) Browser
 b) Compiler d) Search Engine (.....)
- (19) According to the latest statistics which of the following website is the most popular social media website?
 a) Google c) Facebook
 b) YouTube d) Skype (.....)
- (20) Which of the following is **not** a data type of MS Access?
 a) Number c) Image
 b) Currency d) Short Text (.....)

PART B

(Marks: 1x10 = 10)

Match the contents of column A with those of the column B.

<i>Column A</i>			<i>Column B</i>	
1	Digital Pen	.....	A	An example for a custom application software
2	MS DOS	.....	B	An example for a generic application software
3	WinZip	.....	C	An example for a operating system with command line interface
4	OneDrive	.....	D	An input device which captures strokes of a user and converts into digital data
5	Megahertz (MHz)	.....	E	An example for a utility system software
6	Electronic Management System (EMS) in the UVPA	.....	F	File storing and sharing service offered by Microsoft
7	MS Office	.....	G	Stands for World Wide Web

8	WWW	.....	H	A measuring unit of the speed of a printer
9	External Hard Disk	.....	I	Measuring unit of the speed of a computer processor
10	Pages per minute	J	An example for a secondary storage device

PART C	(Marks: 1x10 = 10)
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Fill in the blank with the **most suitable word** in the list given below.

(Central Processing Unit, Integrated Circuits, Modifier Keys, Movement Keys, Musical Instrument Digital Interface, Vacuum Tubes, Web camera, RAM, ROM, Digital camera, Dot-Matrix Printer, Laser Printer, Processing)

1. Data stored in the erased when the computer is switched off.
2. helps you to enjoy better picture quality in video conferencing applications such as ZOOM or Skype.
3. First generation computers were developed using
4. Third generation computers were developed using
5. is called as the brain of the computer system.
6. captures images electronically.
7. is an example for a non-impact printer.
8. Input, output, and memory devices are considered as essential hardware in the computer system.
9. in a computer keyboard helps to move around the screen without using a mouse.
10. an input device which connects musical instruments to computer.

PART D	(Marks: 40 Marks)
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- **Answer all questions** in space provided in the sheet itself.

(1) (a) List three ways how you used the computer during the Covid pandemic period.

(03 Marks)

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(b) Consider the following computer advertisement and answer the questions given below.

(1x10 = 10 Marks)

 <p>HP PAVILION DV7 -7003TX LATEST</p> <p>Intel Core I7 2.60GHz (3720QM) 8GB DDR3/2TB HDD 17.3 LED DISPLAY WIFI/BT//WC/ DVD R WIN10 HOME PREMIUM</p>	I Type of the Computer?
	II Brand of the Computer?
	III Type of the Processor?
	IV Speed of the Processor?
	V Size of the memory?
	VI Size of the primary storage?
	VII Available Operating System?
	VIII Type of the Monitor?
	IX Size of the Monitor?
	X Provided two other features?

(2) Consider the following MS Access database table “**Student**” and answer the questions given below.

Student_Number	Student_Name	Age	Address	Contact_Number	Joined_Date
S 001	Sanka Silva	24	Colombo	+94112119119	8/7/2022
S 002	Shehan Perera	26	Gampaha	+94112191919	8/10/2021
S 003	Asanka de Mel	22	Colombo	+94112181818	9/6/2023
S 004	Akila Sharwen	23	Galle	+94112429429	7/8/2023

(a) What is the primary key of the above table. **(01 Marks)**

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(b) How many fields and records are in the above table? **(02 Marks)**

I. Number of Fields

II. Number of Records

(c) Write down the field names and the suitable data types in MS Access for the given fields.

(06 Marks)

Field Name	Data Type

(3) Consider the following MS Excel worksheet and answer the questions given below.

	A	B	C	D	E	F	G
1	Population (in thousands)						
2	District	Year		Differnce	Status		
3		2018	2019				
4	Colombo	3608	3621	13	Increased Population		
5	Gampaha	1796	1802	6	Increased Population		
6	Kurunegala	1711	1719	8	Increased Population		
7	Kandy	1474	1476	2	Normal Population		
8	Total	8589	8618				
9	Average	2147.25	2154.50				
10							
11							

(a) Write a formula or a function in cell **B8** to find the **Total population** of the four districts in the year 2018. **(02 Marks)**

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(b) Write a formula or a function in cell **B9** to find the **Average population** of the four districts in the year 2018. **(02 Marks)**

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(c) How can you find the total and average population in the four districts for the year 2019. **(02 Marks)**

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(d) Write a formula in cell **D4** to find the **Difference** of the population in the Colombo districts from 2018 to 2019. **(02 Marks)**

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(e) Suppose you want to display the **Status** of each district based on the difference of the population growth. Status is given as below.
If the difference is greater than or equal to 5 then the status should be “Increased Population” otherwise “Normal Population”. Write a formula in cell **E4** to get the status of the Colombo district. **(03 Marks)**

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(4.) (a) Convert the following numbers into binary numbers.

(i) 455_{10}

(ii) 147_8

(04 Marks)

(b) Convert the following numbers into decimal numbers.

(i) 1110011_2

(ii) $4AE_{16}$

(03 Marks)

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