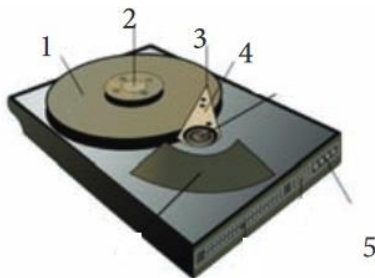## PART II

Answer all questions

01.   01. Convert the binary number 11001101_2 to decimal. Show your calculations.

02. Classify the computers according to their size?

03. Write two services provided by the Government to Citizen by using ICT.

04. State whether the following statements are True/False

   a. Ada Augusta is considered as the first lady programmer.

   b. Non-impact printer does not strike head against a ribbon.

05. What is the bio metric device used to record the employee's arrival and departure time in the office premises?

06. Telemedicine is a method of providing medical care remotely

   a. List one advantage of telemedicine in addition to the remote accessibility

   b. List one challenge in using Telemedicine

07. Match the columns A and B appropriately

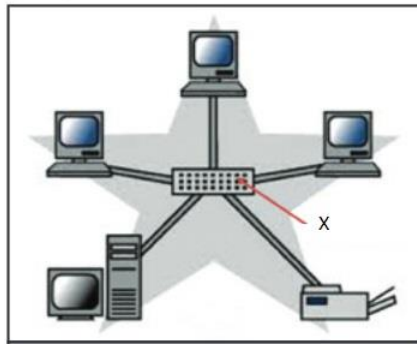| A	B
Keyboard	Topology
Analog computer	Plotter
Mesh	Speedo meters
Output Device	Qwerty

08. G.C.E (A/L) students obtain their results via education website. When the index number is entered in to the system, the system validates it. If it is valid, then the results will be displayed on the screen. Write the input, process and output for this scenario.

09. What do you mean by firewall?

10. Write down the components of CPU.   (2 x 10 = 20 marks)

02.   a) Give 2 examples for volatile memory and non-volatile memory?

   b) Hard disk is made of several components.

1) The above figure shows the hard disk components and Identify the labelled 1 – 5.

2) Give the function of label 3?

                                                      (4+5+1 = 10 marks)

03. Network topology is the pattern of connection in designing computer network

1) Identify the above topology.
2) Give two devices that suite to the "X"?
3) What are the two differences between the above two devices, states in question 2?
4) Give two advantages of computer network?
5) What are the three types of computer network?

$$(4 + 2 + 2 + 2 + 3 = 10 \text{ marks})$$

04. a) Transmitting the data and information is called data communication

1) What are the basic components required for the data communication?
2) Give three examples for guided data transmission medium.
3) What is meant by sever computer and client computer?

$$(1+5+1+5+2 = 5 \text{ marks})$$

b) Computer ports are connected to the mother board

1) …………………………. is used to connect the keyboard and mouse to the computer system.
2) ………………………….. is used to connect the computer to the network router.
3) …………………………… is used to connect the digital TVs and multimedia projector.
4) ……………………………. is used to connect the printer to the computer system
5) …………………………….. is used to connect the input and output devices to the computer system $(1x\ 5 = 5 \text{ marks})$

05. Write the short notes about the followings

a) Services provided by the LMS for the students
b) 5th generation computers
c) Features of distance learning $(4+3+3 = 10 \text{ marks})$