



Reg. No: \_\_\_\_\_

Date: 28.07.2006

Time 4.00 pm to 5.30 p

Answer All Questions in PART A and PART B.

**PART A**

Underline the correct answer from the options given below.

- (01) Identify the characteristics of a computer.  
(a) High speed, Versatility, Low price, Programmable  
(b) Reliability, Automation, Intelligence, Environment  
(c) Versatility, Diligence, Reliability, Memory  
(d) Diligence, Intelligence, Environment, High Speed  
(e) Automation, Programmable, Low price, Memory
- (02) Identify the *Incorrect* statement of the Control Unit.  
(a) From the main memory to the ALU it controls instructions and data.  
(b) It interprets all the instructions.  
(c) The devices attached to the computer are controlled and acts as a coordinator.  
(d) Make the computer to carry out the instructions.  
(e) It can hold information while power is not being fed to it.
- (03) Secondary memories of a computer are:  
(a) Floppy disk, Hard disk, CD-ROM, USB  
(b) ROM, Floppy disk, Cache, Accumulator  
(c) RAM, Register, CD-ROM, Adder  
(d) Hard disk, RAM, Adder, Accumulator  
(e) Cache, USB, Register, ROM
- (04) 85425 byte is equivalent to:  
(a) 85.425 KB                      (b) 0.673 MB                      (c) 0.081 GB  
(d) 0.085 KB                      (e) 83.423 MB
- (05) What is the correct definition for peripheral devices?  
(a) All the component of a computer other than ALU.  
(b) Each and every components of a computer.  
(c) Input and output devices only.  
(d) All the components of a computer except memory and CPU.  
(e) Input/Output devices and CPU.
- (06) How many bits are needed to represent all the characters (Upper and lower cases) in the English language and numerical values?  
(a) 6 bits                              (b) 8 bits                              (c) 7 bits  
(d) 12 bits                             (e) 5 bits

- (07) What is the ASCII representation of OUSL?
- (a) 0011111 1010101 1010011 0011100
  - (b) 1001111 1010101 1010011 1001100
  - (c) 1001111 1011010 1011100 1000011
  - (d) 1111100 0101101 0011101 1100100
  - (e) 1111001 1010101 1100101 0011001
- (08) Convert  $1011101.11101_2$  into decimal.
- (a)  $103.90625_{10}$
  - (b)  $102.90625_{10}$
  - (c)  $103.46_{10}$
  - (d)  $103.84375_{10}$
  - (e)  $102.46_{10}$
- (09) Convert  $0.375_{10}$  into binary
- (a)  $0.1100_2$
  - (b)  $0.001_2$
  - (c)  $0.0011_2$
  - (d)  $0.1000_2$
  - (e)  $0.0001_2$
- (10) What do you mean by the word *record*?
- (a) A record is a collection of files.
  - (b) A record is group of characters.
  - (c) A record is a collection of fields.
  - (d) A basic unit of information.
  - (e) All of the above are incorrect.
- (11) Select the correct statement.
- (a) RAM is a primary memory while ROM is considered to be a secondary memory.
  - (b) The mouse buttons can be programmed according to the user requirements.
  - (c) Bar code reader is an input device as well as an output device.
  - (d) Character coded in ASCII need 8 bits while EBCDIC needs only 7 bits.
  - (e) At present punched card is the most popular input method.
- (12) Select *Serial printers* from the following combinations.
- (a) Dot matrix printer and Letter quality printer.
  - (b) Dot matrix printer and Drum printer.
  - (c) Bubble jet printer and Ink jet printer.
  - (d) Letter quality printer and Laser printer.
  - (e) Laser printer and Bubble jet printer.
- (13) What is the function of an assembler?
- (a) It translate Low-level language source program to Assembly language.
  - (b) It translate English language source program to Machine language.
  - (c) It translate High-level language source program to Assembly language.
  - (d) It translate Assembly language source program to Machine language.
  - (e) It translate Machine language source program to Assembly language.
- (14) What is *not* an advantage of High-level language?
- (a) Reduce the number of instruction.
  - (b) Easy to read, write and maintain.
  - (c) Not necessary to have a knowledge of the internal structure of the computer.
  - (d) Problem oriented language.
  - (e) Computer can directly understand.

- 5) Select the High-level languages from the following.
- Pascal, Windows, Fortran, ADA
  - C, Java, DBMS, DOS
  - Fortran, Basic, C, Java
  - Basic, Excel, DOS, Fortran
  - Basic, MS-Word, Java, ADA
- (16) Identify the correct statements from the following.
- Computer is a machine, which can perform the duty of any machine or at least it can control machines.
  - Computer is an Intelligence machine with high concentration power.
  - Computer can understand the English alphabet and binary values only.
- I correct
  - II correct
  - I and II correct
  - II and III correct
  - all correct
- (17) What are the disadvantages of a computer?
- The accuracy decreases when it works for long period.
  - User has to feed the instruction because computer can not think.
  - It should have proper working environment.
- I correct
  - II correct
  - I and II correct
  - II and III correct
  - all correct
- (18) A memory, keeping commonly used information is called:
- Register
  - Cache
  - Adder
  - RAM
  - Accumulator
- (19) What are the main factors that you should consider when purchasing a computer?
- Speed, Word size, Memory size, Physical size
  - Word size, Physical size, Peripheral devices, Software support
  - Speed, Memory size, Peripheral devices, Software support
  - Memory size, High power consumption, Software support, Word size
  - External devices, Memory size, Physical size, Speed
- (20) What do you mean by the seek time?
- The time taken to reach the specified cylinder.
  - The time taken to reach the specified disk.
  - The time taken to reach the specified sector.
  - The time taken to transfer the data from the specific cylinder.
  - The time taken by the disk to rotate once.

## PART B

For question numbers 01-10 answers must be written ONLY on the space provided.

To answer question 01-04 the following information is given below.  
A disk pack has 4 plates and each surface contained 200 tracks. There are 50 sectors per track. Each sector can store 512 bytes.

(01) Calculate the total capacity of the disk pack.

(02) The rotating speed of above disk pack is 7200 rpm. Calculate the *latency time*.

(03) Find the value of the *data transfer rate*.

(04) If the *average seek time* is 3ms what will be the *average access time*? Comment on your answer.

(05) Explain what is *sequential access* and *random access* in a storage medium.

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(06) What are the main features of a computer language?

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(07) What do you mean by internal and external data representation?

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(08) Define the word *Data Processing*.

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(09) Write the name of an output device and write an advantage of it.

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(10) What types of documents that an OMR can be used?

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