6th Sem. / ECE, ECE (For Speech and Hearing Impaired)
Subject : Maintenance of Computer Systems

Time : 3 Hrs.   M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory   (6x1=6)

Q.1   How many bus structures does a microprocessor have:

a)   one   b)   two

c)   three   d)   none of these

Q.2   In memory Read bus cycle, What does CPU do:

a)   Writes data to memory location

b)   reads data from memory location

c)   both

d)   none of these

Q.3   In a simple bus stricture, how many different buses are there :

a)   one   b)   two

c)   three   d)   none of these

Q.4   Which motherboard form factor is most common:

a)   BTX   b)   ATX

c)   DTX   d)   none of these

Q.5   In PS/2 connector for mouse, PS stands for :

a)   Private System   b)   Personal System

c)   Both   d)   None of these

Q.6   USB stands for:

a)   Unattended Serial Bus

b)   Upper Serial Bus

c)   Universal Serial Bus

d)   None of these

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory.   (6x1=6)

Q.7   Expand CPU

Q.8   How many pins are there in PS/2 mouse port ?.

Q.9   Expand RAM

Q.10   Expand ROM

Q.11 What is the minimum no of RAM slots in motherboard?

Q.12 Expand BIOS

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

Q.13 Explain motherboard with block diagram.

Q.14 Explain COM1 and LPT1 ports.

Q.15 Explain different types of buses.

Q.16 Describe principle & construction of HDD.

Q.17 Briefly explain the architecture & working of pen drives.

Q.18 Briefly explain about the following.

　a) RAM module

　b) SSD USB

　c) RS232C

　d) HDMI

Q.19 Explain block diagram & principle of operation of Computer Monitor.

Q.20 Explain briefly about video display adaptors & types of display.

Q.21 Explain printing mechanism. Briefly explain the construction & Working principle of :

　a) inkjet printer

　b) laser printer

Q.22 Explain the interfacing of PC with printer.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

Q.23 Explain the following terms in detail:

　a) LAN b) WAN c) Wi-Fi

Q.24 Explain , briefly about the following:

　a) ROUTER b) SWITCH c) HUB

Q.25 Explain briefly about the following :

　a) Block Diagram of motherboard

　b) Installation of computer system