

BSc.- III
(Computer Hardware)

Section A

1X10 = 10

- 1) What is clock generator?
- 2) Why is flag registers used for?
- 3) What is register indirect addressing mode?
- 4) What is BIOS an acronym for?
- 5) Name any 2 types of motherboard expansion slots.
- 6) Why is VGA port used for?
- 7) What do you mean by bootable disk?
- 8) What are 2 important functions of EXEC loader provided by Dos?
- 9) What are the interrupt inputs in the INTEL 8088 CPU of the PC.
- 10) What do you mean by filters in operating system?

Section B

3X5 = 15

- 1) Write short notes on memory mapped I/O

OR

Register Organisation of 8088.

- 2) Write short notes on -

- 1) Direct Addressing
- 2) Base Index addressing.

OR

explain DMA controller with diagram.

- 3) Explain installation of windows with important system files.

OR

Explain what do you understand by serial port services and printer services in ROM-BIOS.

- 4) Explain the process of loading the program overlays through EXEC in detail.

OR

What is memory allocation? explain memory management under Dos.

- 5) Explain interrupt service routines?

OR

Explain Trouble shooting in windows operating system

Section-C

SXS = 25

- 1) Describe the different components of micro computer with a block diagram.

OR

What do you mean by I/O mapped I/O? In what way I/O mapped & memory mapped I/O is differ? Explain.

- 2) What is ROM-BIOS? Write the difference between Video control through ANSI-SYS and video control through ROM-BIOS.

OR

Explain how the data is organized in hard disk. Write short notes on video displays of P.C.

- 3) List out the various functions normally performed by a disk operating system.

OR

What is operating system? Explain different components and services of the operating system.

- 4) What are the different types of memory? Discuss their merits demerits and area of applications.

OR

Explain logical structure of hard disk. Discuss memory allocation.

- 5) Discuss various types of interrupts. Also explain enabling, disabling & masking of interrupts.

OR

Explain about interrupt vector table in personal computer and about ISR.