# COMPUTER SCIENCE

## Paper First : 2016 Annual
## Computer Hardware

### UNIT - 1

1.(a) What is bussed architecture ? Describe memory addressing in brief.

(b) Discuss segment, index and flag registers of 8088 up.

**OR**

(a) Describe branch addressing and I/O addressing mode with proper examples.

(b) Draw and explain Hardware controlled I/O or DMA I/O technique.

### UNIT - 2

2.(a) Give brief description of system timer/ counters circuitry in the motherboard.

(b) What is CGA ? Explain various modes of CGA.

**OR**

(a) How can video be controlled by ANSI-SYS ?

(b) Describe various types of PC-bus slots and feature cards.

### UNIT - 3

3.(a) Describe ROM-BIOS Diskette service INT13H in brief.

(b) What are the functions of Exec loader ? Explain PSP in brief.

**OR**

(a) Discuss various DOS-interrupt (INT20-2FH).

(b) Describe ROM-BIOS serial port service INT14H.

### UNIT - 4

4.(a) Differentiate between root directory and sub-directory.

(b) How can files be manipulated under DOS ?

**OR**

(a) Distinguish between FAT-12 and FAT-16.

(b) What do you mean by parameter block ?

### UNIT - 5

5.(a) Describe various types of interrupt in PC.

(b) Define redirection of I/O under DOS.

**OR**

Write down the steps to install wondows operating system.