



Time: 3 Hrs.]

Q.1[Attempt any FIVE of the following:

[20]

Q.1(i) State the features of 80386 microprocessor

[4]

Ans.: Features of 80386-

[Each feature - 8 marks]

1. It is a 32-bit PGA (pin grid array) with 32 bits non-multiplexed data bus and 32-bit address bus.
2. It works in 3 modes: real, protected and virtual 8086 mode (V-86).
3. It can address total 2³² i.e., 4GB physical memory with the help of its 32-bit address lines.
4. The integrated memory management unit in 80386 supports segmentation and paging of memory.
5. It supports the interface of 80387-CO coprocessor IC to perform the complex floating point arithmetic operations.
6. It supports 64TB virtual memory.
7. It has a integrated memory management unit which supports the virtual memory and four levels of protection.
8. It has a on-chip clock divider circuitry.
9. It has BIST (built in self test) feature which tests approximately one half of the 80386 processor when RESET and BUSY are active.
10. It has breakpoint registers to provide the breakpoint traps on code (instructions) execution or data access.
11. It supports instruction pipelining with the help of 36-byte instruction pre-fetch queue.
12. It has 8 32-bit General Purpose bits registers to store the data and address at the time of programming.
13. It has 8 debug registers DR0-DR7 for hardware debugging and control.
14. It has a 32-bit E flag register.
15. It supports the dynamic bus sizing by which the 80386 can be interfaced to 16-bit devices effectively. And also supports the 8bits, 16 bits and 32 bits operands.
16. It operates on 20 MHz and 33 MHz frequency.

Q.1(ii) Differentiate between .COM and .EXE programs. (any four points)

[4]

Ans.:

[Each point 1 mark]

| | .COM programs | .EXE Programs |
|----|---|---|
| 1. | .COM file does not contain any header | .EXE file contains header |
| 2. | .COM file cannot contain relocation items. | .EXE file may contain relocation items. |
| 3. | Maximum size is 64K minus 256 bytes for PSP and 2 bytes for stack | No limit on size. Can be of any size |
| 4. | Entry point is PSP:0100 | Entry point is defined by E340 directive. |
| 5. | Stack size is 64K minus 256 bytes for PSP and size of executable data and code. | Stack size is defined in a program with STACK directive. |
| 6. | Size of file is exact size of program. | Size of file is size of program plus header (Multiple of 256 bytes) |

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