

Microprocessor

- ① Discuss how address and data buses of 8086 Microprocessor are multiplexed? How these are de-multiplexed?
- ② Define odd address bank and even address bank of an 8086 microprocessor?
- ③ Discuss how byte and word data are read from an odd address and even address of an 8086 microprocessor? X
- ④ Discuss the internal organisation of an 8086 Microprocessor?
- ⑤ Discuss memory segmentation and then discuss different segment register of an 8086 microprocessor?

S-Citapram

- ⑦ Define a 64-bit processor?
Difference between ⁶⁴ bit and 32 bit processor on the basis of data, address and memory size?
- ⑧ Draw the block diagram of the organisation of Intel 8086 micro-processor and then discuss its execution unit and bus interface unit?
- ⑨ What is an interrupt?
- ⑩ What is an assembler directive?
Mention some assembler directive with their tasks?
- ⑪ Compare 8086 and 8085 micro-processor on the basis of the size of data bus, address bus and memory.

- ⑫ Write different memory models of 8086 microprocessor with required number of code segment and data segment.
- ⑬ Discuss different categories of function performed by a microprocessor.
- ⑭ Define Microprocessor?
- ⑮ Define assembler directive?
- ⑯ Mention some assembler directive with their application?
- ⑰ Explain pseudo-opcode? mention some pseudo-opcode with their function?
- ⑱ Discuss DOS and BIOS interrupts with example.

~~⑲~~

S. Citapram

~~Base~~

⑫ Explain memory model?

Mention some memory model used in assembly language?

⑬ Discuss MOV and XCHG instruction with their differences and instruction.

B-section

~~8, 6, 7~~ 6, 7

- ① Explain near type and far type procedure used in assembly language / Difference
- ② What happened when CALL and RET instruction are executed.
- ③ What is masking? Write how can the sign bit of DX be changed?
- ④ Write some codes to reverse the bit pattern in BX.
- ⑤ What are the important signal of 8086? Discuss them briefly.

S-Citapram

~~① What is meant by masking?~~

~~①~~

② Define Addressing mode?

Discuss based Addressing mode and Indexed addressing mode of 8086 processor?

③ What is the range of problem of ~~com~~ conditional Jump instruction? How can the problem be solved?

④ What do u mean by range problem of conditional Jump of 8086? How can the problem be solved?

asking?

e?

mode

ode

⑨ Discuss ^{Bios and} DOS routine with example?

⑩ Discuss how logical instruction of 8086 are used to mask of instruction.

5 3 11 no set:

5 3 11 no set:

① Explain signed overflow and Unsigned overflow with example?

② What do u mean by Program segment prefix (PSP)?
Explain.

③ What is flag? Discuss how flag are affected for signed overflow and unsigned overflow?

S-Citapram

④ What is subroutine? Explain call and return instruction.

⑤ Describe flag register of 8086 with neat diagram?

⑥ Explain register organisation of 8086 processor in detail?