



Tula's Institute

1st Continuous Internal Evaluation Even Semester (March 2022)

Subject Name with Code: Microprocessor & its applications

Program/Branch/Year: B.Tech/CSE/III

Time Duration: 90 min

Maximum Marks: 30

Q No.1 Attempt all.

(1 X 6 =6)

- | | |
|------------------------------------|-----------------|
| a) 8085 has memory size..... | (CO1) (Level 2) |
| b) 8085 was introduced in..... | (CO1) (Level 2) |
| c) 8085 has..... data bus. | (CO1)(Level 2) |
| d) 8086 has index registers. | (CO2)(Level 2) |
| e) 8086 hasaddress bus. | (CO2)(Level 2) |
| f) 8086 has..... pins. | (CO2)(Level 2) |

Q No.2 Attempt any three.

(4 X 3 =12)

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|--|----------------|
| a) Explain evolution of microprocessor. | (CO1)(Level 3) |
| b) Explain Accumulator & flag register of 8085. | (CO1)(Level 3) |
| c) Explain register array & ALU of microprocessor. | (CO1)(Level 3) |
| d) Differentiate between 8085 & 4004. | (CO1)(Level 3) |

Q No.3 Attempt any three.

(4 X 3 =12)

- | | |
|--|----------------|
| a) Explain segment and index registers in 8086. | (CO2)(Level 3) |
| b) Explain architecture of 8086. | (CO2)(Level 3) |
| c) Explain 20 bit physical address generation of 8086. | (CO2)(Level 3) |
| d) Evaluate the physical address :
[CS] =2222 H, [IP] = 4348 H, [DI] = 3333 H | (CO2)(Level 3) |

Vision

- To emerge as an academic centre producing world class professionals promoting innovation and research.

Mission

- To promote intellectual and skilled human capital generating employment and entrepreneurship.
- To be an educational centre of excellence of multi ethnicity and diversity.
- To establish a technology driven teaching learning institution.
- To provide world class platform for research and innovation.
- To inculcate social, environmental, heritage values.