

SANT GADGE BABA AMRVATI UNIVERSITY, AMRAVATI
Summer Examination 202 Credit Point0
HVPM's College of Engineering and Technology, Amravati
Department of Electronics & Tele communication Engineering
Bachelor of Engineering Sem. :- VI

Subject :-Introduction to microprocessors

Code :- 6XT3

Instructions:-

- 1) Solve any two questions
 - 2) All question carry equal marks
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Q1.

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|---|-----------------|
| a) Explain the architecture of 8085 in details. | 02 Credit Point |
| b) Explain in details control instructions with suitable example. | 02 Credit Point |
| c) Explain in details interrupts of 8085. | 02 Credit Point |
| d) Draw interfacing of 8255 PPI with 8085. | 02 Credit Point |
| e) What are the addressing modes of 8086 | 01 Credit Point |
| f) Explain different types of conditional jump instruction | 01 Credit Point |

Q2.

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|--|-----------------|
| a) Explain the instructions 1) PUSH PSW, 2) LDAX rp 3) RAL 4) RRC | 02 Credit Point |
| b) What is the role of subroutine, stack & address partitioning in 8085. | 02 Credit Point |
| c) Give the format of SID & SOD operation in details. | 02 Credit Point |
| d) Explain the registers in 8237 DMA. | 02 Credit Point |
| e) Explain rules of memory segmentation & its advantages. | 01 Credit Point |
| f) Explain flag manipulation instruction of 8086. | 01 Credit Point |

Q3.

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|--|-----------------|
| a) Explain Flag structure of 8085 with 1 example each. | 02 Credit Point |
| b) What is assembler explain its types & advantages. | 02 Credit Point |
| c) Draw & explain block diagram of 8251 USART | 02 Credit Point |
| d) Explain the data transfer technique of interrupt driven & status check polling in 8085. | 02 Credit Point |
| e) Explain the operation of 8254. | 01 Credit Point |
| f) Explain 1) CALL 2) INTN 3) JMP of 8086. | 01 Credit Point |

Q4.

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|--|-----------------|
| a) What is the role of W & Z register in 8085. | 02 Credit Point |
| b) Write an ALP to find smallest number of two numbers 94H & 88H. | 02 Credit Point |
| c) Explain mode1 & mode2 of 8255 PPI. | 02 Credit Point |
| d) Explain Hand Shaking, polling & Vector interrupt. | 02 Credit Point |
| e) Explain the bits 1) W 2) S 3) Z 4) D used in instruction format of 8086 | 01 Credit Point |
| f) Explain the instructions of 8086 1) CBW 2) CWD 3) CALL ADDR 16 | 01 Credit Point |