

SANT GADGE BABA AMRVATI UNIVERSITY, AMRAVATI
Summer Examination 2020 Credit Point
HVPM's College of Engineering and Technology, Amravati
Department of Electronics & Tele communication Engineering
Bachelor of Engineering Sem. :- V

Subject :-Microprocessors & Microcontrollers(new)

Code :- 5ET3

Instructions:-

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

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|--|-----------------|
| a) Draw the Architecture of 8085. | 02 Credit Point |
| b) What is data transfer instruction explain any one in brief. | 02 Credit Point |
| c) Explain in brief 8255 PPI IC | 02 Credit Point |
| d) Draw pin diagram of 8051 | 02 Credit Point |
| e) What are addressing modes of 8051 | 01 Credit Point |
| f) Draw interfacing diagram of stepper motor with 8051 | 01 Credit Point |

Q2.

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|--|-----------------|
| a) Addressing modes of 8085 | 02 Credit Point |
| b) Explain MVI & SBI instructions with example | 02 Credit Point |
| c) Explain the role of USART in 8085 | 02 Credit Point |
| d) Explain the features of 8051 | 01 Credit Point |
| e) Explain the modes of timers In 8051 | 02 Credit Point |
| f) What are the data types in C for 8051 MC. | 01 Credit Point |

Q3.

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|--|-----------------|
| a) Explain the timing diagrams of 8085 | 02 Credit Point |
| b) Write a program to copy the content of register A into B & D registers. | 02 Credit Point |
| c) Explain in brief programmable interval timer (8254) | 02 Credit Point |
| d) Explain in brief special function registers of 8051 | 01 Credit Point |
| e) Explain the instruction in 8051 -MOVC A, @A+DPTR | 01 Credit Point |
| f) Write a program to generate square wave by ALP using DAC0808 | 02 Credit Point |

Q4.

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|---|-----------------|
| a) Explain flag register of 8085 | 02 Credit Point |
| b) What do you mean by stack & subroutine program of 8085 | 01 Credit Point |
| c) Draw interfacing diagram of USART 8251 with 8085 | 02 Credit Point |
| d) Explain memory organization of 8051 | 02 Credit Point |
| e) Explain the instruction in 8051- MOV A, @R1 | 01 Credit Point |
| f) Explain H Bridge network of DC Motor in 8051. | 02 Credit Point |