



Sanjay Ghodawat University, Kolhapur

2018-19

Established as State Private University under Govt. of Maharashtra. Act No XL, 2017

EXM/P/09/01

Year and Program: 2018-19

School of Technology

Department of SY B.Tech

Course Code: CST213

Course Title: Microprocessor & Microcontroller

Semester – III

Day and Date

Friday
14/06/2019

End Semester Examination
(ESE)

Time: Max Marks: 100

3 Hrs. 2.30 to 5.30 PM.

Instructions:

- 1) All questions are compulsory.
- 2) Assume suitable data wherever necessary.
- 3) Figures to the right indicate full marks.

Q.1	Solve any Two	Marks	Bloom's Level	CO
a)	Draw and Explain the 8085 microprocessor architecture	07	L ₃	CO1
	OR			
a)	With a neat diagram explain in detail the architecture of 8086 microprocessor	07	L ₃	CO2
b)	Elaborate the addressing modes of 8086 microprocessor	08	L ₂	CO2
	OR			
b)	Illustrate the addressing modes of 8085 microprocessor	08	L ₂	CO1
Q.2	Solve any Two	Marks	Bloom's Level	CO
a)	Define the Assemble Directive? Explain any six assembler directives with suitable example	07	L ₃	CO2
	OR			
a)	What are the types of instructions set in 8085? Explain the arithmetic instructions of 8085.	07	L ₃	CO1
b)	Explain the 8086 minimum mode configuration with block diagram.	08	L ₂	CO2
	OR			
b)	Explain the 8086 maximum mode configuration with block diagram	08	L ₂	CO2

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Q.3 Solve any Two				
a)	Draw & Explain block diagram of 8087 Numeric Data Processor.	08	L ₂	CO3
b)	Explain coprocessor configuration of 8086	08	L ₂	CO3
c)	Explain bus allocation schemes with block diagram.	08	L ₂	CO3
Q.4 Solve any Two				
a)	Draw and Explain 8255 PPI IC	09	L ₃	CO4
b)	What is DMA? Explain 8237 registers and operating modes in detail.	09	L ₃	CO4
c)	Explain Synchronous and Asynchronous serial communication in detail.	09	L ₃	CO4
Q.5 Solve any Two				
a)	Draw and explain architectural block diagram of 8051 microcontroller	09	L ₃	CO5
b)	Explain the addressing modes of 8051 microcontroller	09	L ₃	CO5
c)	Give the difference between Microprocessor and Microcontroller	09	L ₃	CO5
Q.6 Solve any Three				
a)	Explain the salient features of 8051 Microcontroller	06	L ₂	CO6
b)	Draw and Explain the Pin diagram of 8051 Microcontroller	06	L ₂	CO6
c)	Explain the timers and counters of 8051	06	L ₂	CO6
d)	Explain the serial communication interrupts with block diagram	06	L ₂	CO6

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