Code No: 138GK **R16**

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech IV Year II Semester Examinations, December - 2020
MICROPROCESSORS AND MICROCONTROLLERS
(Computer Science and Engineering)

Time: 2 hours **Max. Marks: 75**

Answer any Five Questions
All Questions Carry Equal Marks
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1.a)	Describe the Register organization of 8086µp .	
b)	Explain the necessity of segment memory in 8086 µp.	[9+6]
2.	Explain the available addressing modes of 8086 with suitable examples.	[15]
3.	Draw and explain the architecture of 8051 µc.	[15]
4.a)	Discuss the I/O ports of 8051 with neat sketches.	
b)	Explain the operations of DPTR and PC Registers.	[9+6]
5.a)	Write ALP for serial communication interrupt of 8051 with suitable example.	
b)	Explain each bit operation of SCON SFR.	[8+7]
6.a)	Draw and explain the interfacing of ADC with 8051.	
b)	Draw and explain the interfacing of LCD with 8051.	[8+7]
7.a)	Explain the register organization of ARM.	
b)	Discuss the software interrupt instruction with suitable example.	[8+7]
8.	Describe the OMAP processor Architecture.	[15]

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