JIET GROUP OF INSTITUTIONS
JODHPUR INSTITUTE OF ENGG. & TECH.
II MID-TERM EXAMINATION, 2019-20
II B. TECH. (IV SEMESTER)
BRANCH: COMPUTER SCIENCE AND ENGG.
SUBJECT CODE: 4CS3-04
SUBJECT : MICROPROCESSOR AND INTERFACES

Time: 90 minutes   **Max. Marks: 50**

	Max. Marks	CO Mapping	Difficulty Level
Q.1 Explain the function of ISR, IMR, IRR and PR in 8259 Programmable interrupt controller (PIC), with suitable functional diagram.	**[10]**	[CO3]	[3]
Q.2 Write a program to initialize 8255 in the configurations as in I/O mode 0, port A input, Port B output , port CL output and port CU input using suitable control word format. (Assume address of CW register 83 H)	**[10]**	[CO3]	[3]
Q.3 (a) Explain RD and WR operations in 8254 Programmable interval timer (PIT) with the help of block diagram	**[5]**	[CO4]	[2]
(b) In 8254 (PIT) explain mode 2 and mode 3 operation with suitable waveforms.	**[5]**	[CO4]	[2]
Q.4 (a) Explain functional diagram of 8255- PPI.	**[5]**	[CO4]	[2]
(b) How many different modes in 8255 PPI, explain in brief.	**[5]**	[CO4]	[2]
Q.5 Describe the function of Control word, Status word & Data Buffer Registers of USART 8251.	**[10]**	[CO5]	[2]

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