SSOS Ing Alders Manch SECTION - Command a series made in the

.	Answe	er any three of the following questions.	(3×15=45)	
	21) a)	Simplify the following using K-map.		
		$F(A, B, C, D) = \sum (0, 2, 4, 7, 8, 10, 12) + \sum d(5, 6, 15).$	8	
	b)	Explain different binary codes.	7	
	22) a)	What is shift register? Explain the classification of shift register.	8	
	b)	Explain IC's and its types.	7	
	23) a)	Explain BSA and BUN instruction with suitable example.	8	
		Explain various modes of data transfer.	19wanA 1	
	24) a)	Write a short note on CISC and RISC.	7	
	b)	Explain the common bus system.	8	
	25) a)	Explain the input-output instructions.	7	
	b)	Write a short note on memory hierarchy.	8 Defi	

SECTION - D

IV. Answer any one of the following questions.	(1×10=10)
26) Design and discuss 3-bit parity checker with neat diagram.	01 9) Distingu
27) a) Explain the working of JK Flip Flop.	noitneM (01 5
b) Write a note on direct mapping.	ai tenW (FT 5



II. Answer any five Or (12) (10) and a discovery of the control of

lain the different addressing modes lain the interrupt cycle of computer.

Difference between memory mapped V