	(Q)	What is Flag? Explain the various status Flags $8085 \mu p$.	of 6
	(R)	Explain the function of PC in 8085 μp.	2
		HER	
5. 	(A)	What is subroutine? Write ALP for delay subrouting one register.	ne 4
	(B)	Draw the Flow chart and write ALP for addition two 8-bit numbers.	of 6
	(C)	Explain LDA and STA instructions with example	e. 2
	OR		
	(P)	Draw the flow chart and write ALP for finding maximum no. out of two numbers.	the 6
	(Q)	Explain classification of instruction sets of 8085 with suitable example.	μp 6
	EIT	HER	
7.	(A)	Explain various operating modes of 8255 PPI.	6
,	(B)	Explain control word format for I/O mode with suita diagram.	able 6
	OR		
	(P)	Draw the pin diagram of 8255 PPI and explain function of each pins.	the 6
	(Q)	Explain various data transfer schemes of 8255 l	PPI. 6
UBS	<u>—</u> 500	773 4	2250

B.Sc. Part-II (Semester-IV) Examination							
4S: ELECTRONICS							
(Communication Electronics and 8085 Microprocessor)							
Time—Three Hours]	[Maximum Marks—80						
Note:—(1) ALL question	ons are compulsory.						
(2) Draw neat d	iagrams wherever necessary.						
1. (A) Fill in the blanks:							
(i) ROM stands for	<u> </u>						
(ii) ALU stands for							
(iii) AM is							
(iv) The width of day	ta bus in 8085 is						
	2						
(B) Choose correct alternative for the following							
(i) 8255 PPI have _ (a) Four	operating modes. (b) Two						
(c) Three	(d) One						
	opposite process of						
(a) Rectification	(b) Multiplexing						
(c) Modulation	(d) None						
	· · · · · · · · · · · · · · · · · · ·						

UBS--50073

(Contd.)

(iii) PAM stands for	EITHER
(a) Pulse Amplitude Modulation	3. (A) Explain jointer and coupler. 6
(b) Pulse Alternate Modulation(c) Pulse Position Modulation	(B) What are the different types of optical detectors? Explain any one of them.
 (d) None (iv) The instruction STA 6500H is instruction. (a) Two byte (b) One byte 	(P) Explain advantages and disadvantages of optical fibre communication system.
(c) Three byte (d) Four byte 2	(Q) Draw the block diagram of fiber optic communication system and explain the function of each block. 6
(C) Write answer in one sentence:	EITHER
(i) What is Demodulation?(ii) What is fetch cycle?	4. (A) State in brief various types of pulse modulations and explain.
(iii) What is LASER? (iv) What is the meaning of LDA2500H? 4	(B) State and explain FDM with the help of suitable diagram.
EITHER	OR
(A) Draw and explain the block diagram of superheterodyne receiver. (B) Show that:	(P) Explain PCM used in digital communication. 6(Q) What is multiplexing? Explain TDM. 6
	EITHER
$P_{T} = P_{C} \left(1 + \frac{m^2}{2} \right). \tag{4}$	5. (A) Draw the block diagram of microcomputer and explain the function of each block.
OR	(B) Explain general purpose registers of 8085 μp. 4
(P) Explain theory of AM.	(C) State the function of \overline{RD} and \overline{WR} pins. 2
(Q) Draw the block diagram of FM transmitter and explain	OR
the function of each block.	(P) Explain Instruction cycle, Fetch cycle and Execute cycle with suitable waveform. 4
UBS50073 2 (Contd.)	UBS-50073 3 (Contd.)