Co-403/Micro/4th Sem/2016/N

MICROPROCESSOR

Pass Marks – 28

Time – Three hours

The figures in the margin indicate full marks for the questions.

Answer question No.1 and any four from the rest.

- 1. Answer in brief: $5 \times 2 = 10$
 - (a) Specify size of registers in bits: PC, SP, IR, MAR.
 - (b) Define encoder.
 - (c) Define decoder. To monomial out mising H.
 - (d) What do you mean by TRAP?
 - (e) Specify the function of ALE.
- 2. (a) Compare memory mapped I/O and peripheral I/O.
 - (b) When does Auxiliary carry and zero flag set?
 - (c) "Low order address bus is also use as data bus." How it is possible?

[Turn over

(d) Explain the following two jumping statements:	
(i) NZ	
MICROPROCESSON (ii)	
3. (a) Illustrate the memory read operation with appropriate timing diagram.	
(b) Draw the functionwise pin out diagram of 8085 MPU and explain each pin 10	
4. (a) Write about the programmable peripheral interface (8255).	
(b) Explain common anode seven segment LED with diagram.	
(c) Illustrate 8259 programmable interrupt controller.	
5. Explain the function of the 8085 instruction along with their size in byte, machine cycle and T-state. (any five): (i) MVI	
(ii) LDAX Rp agricum violinam augmo (a) (a)	
(iii) ADD R	
(iv) DCR M vriso visilizu A soob dedW (d)	
(v) JNC 16 bit (vi) CMA.	
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- 6. (a) Explain the bus architecture with diagram.
 - (b) State the function of tri-state buffer. 3
 - (c) Explain the function of DMA controller with diagram.
- 7. Write short notes on any three: ×3=15
 - (a) Applications of microprocessor
 - (b) Stepper motor
 - (c) Relay
 - (d) 8251 Programmable Communication Interface.