

B.C.A. (Part—II) Semester—III Examination
3ST5 : ELECTRONICS

Time : Three Hours]

[Maximum Marks : 60

EITHER

1. (A) Draw the block diagram of Intel 8085 and explain the working of each block. 8
- (B) Explain instruction cycle, fetch cycle and execute cycle. 4

OR

2. (P) Draw and explain timing diagram of memory write cycle. 6
- (Q) Draw the pin diagram of 8085 and explain the function of each pin. 6

EITHER

3. (A) Give the classification of Instruction sets of 8085 and explain the logical group of instruction with suitable example. 6
- (B) Write ALP for addition of two 8 bit number and draw the flow chart. 6

OR

4. (P) Explain various addressing modes of 8085 with suitable example. 6
- (Q) What is stack and stack top ? Explain PUSH and POP instructions with suitable diagram. 6

EITHER

5. (A) Explain control word format of 8255 PPI in I/O mode with suitable diagram. 6
- (B) Draw the block diagram of 8255 PPI and explain the function of each block. 6

OR

6. (P) Explain the various data transfer scheme. 6
- (Q) Explain memory mapped I/O and I/O mapped I/O scheme. 6

EITHER

7. (A) Draw the block diagram 8086 and explain the function of BIU and EU. 8
- (B) Explain the segment registers of 8086. 4

OR

8. (P) Explain G.P.R. of 8086 μ p. 4
- (Q) Explain various flags of 8086 μ p with suitable diagram. 8

EITHER

9. (A) Explain various addressing modes of 8086 μ p with suitable example. 8
- (B) Write an ALP for multiplication of two 8-bit number and draw flowchart. 4

OR

10. (P) Explain arithmetic and logical instructions of 8086 μ p. 6
- (Q) Write ALP for subtraction of two 16-bit numbers and draw flowchart. 6