



PART B — (5 × 16 = 80 marks)

11. (a) (i) Write a program to find the average of ten numbers. (8)  
(ii) Describe the addressing modes of 8085. (8)

Or

- (b) (i) Discuss the functional block diagram of 8085. (12)  
(ii) Write a program to divide two eight bit numbers. (4)
12. (a) (i) Explain about the following assembler directives :  
END P, EQU, EVEN, EXTRN with examples. (8)  
(ii) Draw and discuss a typical minimum mode 8086 system. (8)

Or

- (b) (i) Describe the maximum mode of operation of 8086. (12)  
(ii) What are assembler directives and pseudo ops? (4)
13. (a) Discuss the operation of 8087 numeric data processor.

Or

- (b) Describe the architecture of 8089.
14. (a) Explain the (i) modes of operation of timer and (ii) operation of interrupt controller. (16)

Or

- (b) Discuss briefly about keyboard/display controller. (16)
15. (a) (i) Describe the functions of the signals present in 8051. (10)  
(ii) How a DAC is interfaced with 8051? (6)

Or

- (b) (i) Explain how an LCD and keyboard is interfaced with 8051. (12)  
(ii) Describe about serial port interface of 8051. (4)