



PART B — (5 × 16 = 80 marks)

11. (a) Describe in detail with neat diagram the Pin Configuration of the 8085 Processor with its functions. (16)

Or

- (b) Explain in detail the addressing modes of 8085 with suitable examples. (16)

12. (a) Enumerate about the Architecture of 8086 Microprocessor with a block diagram and also explain its functions in detail. (16)

Or

- (b) Write a 8086 ALP to sort an array of ten bytes in ascending order. Add comments to your Program. (16)

13. (a) (i) Using model, write a program to communicate between two 8086 microprocessors using 8255. (10)

- (ii) Show the control word format of 8255 and explain how each bit is programmed. (6)

Or

- (b) With neat block diagram, explain the description and functions of 8259. (16)

14. (a) Explain in detail the interfacing of Temperature Controller using 8085 Processor. (16)

Or

- (b) Explain in detail the procedure and the block diagram involved in the Traffic Light Controller using 8085. (16)

15. (a) Describe the architecture of 8051 with neat diagram. (16)

Or

- (b) Explain in detail the various modes available for timer in 8051. (16)