



40964



12. a) Discuss the maximum mode configuration of 8086 with a neat diagram. Mention the functions of various signals. (13)
- (OR)
- b) Discuss about the multiprocessor configurations of 8086. (13)
13. a) Draw the block diagram and explain the operations of USART. (13)
- (OR)
- b) Explain in detail about DMA controller. (13)
14. a) Explain the architecture of 8051 with a neat diagram. (13)
- (OR)
- b) Discuss on the different addressing modes of 8051 with suitable examples. (13)
15. a) Describe the different modes of operation of timers/counters in 8051 with its associated registers. (13)
- (OR)
- b) Draw the diagram to interface a stepper motor with 8051 microcontroller and write an ALP to run the stepper motor in both forward and reverse direction with delay. (13)

PART - C

(1×15=15 Marks)

16. a) Draw and explain the block diagram of alarm controller. (15)
- (OR)
- b) Draw the block diagram of traffic light control system using 8086. Write the algorithm and ALP for traffic light control system. (15)