Q.1 (5x4=20)
(a) Why interrupts are used in microprocessors?
(b) Differentiate among processor and coprocessor.
(c) Give some features and instruction types of 8086 processor.
(d) What is DMA? Why DMA controller is needed?

SECTION-A

Q.2 (a) Describe the features of Motorola 68000 processor? Give some advantages of it. (10)
(b) What is a microprocessor? Explain the system bus architecture of 8085 microprocessor. Discuss the various types of microprocessors known to you. (10)

Q.3. Describe the architecture of 8085 microprocessor with neat diagram. Discuss the functions of major components (20)

SECTION-B

Q.4 Explain the following arithmetic instruction of 8085 Microprocessor?
(i) STC  (ii) PUSH R<sub>p</sub>  (iii) SPHL  (iv) CMP  (v) RAR (20)

Q.5 (a) Mention the various Addressing Modes in 8085 Microprocessor with example? (10)
(b) Explain the architecture of 8086 Microprocessor with example? (10)

Q.6 (a) Explain Logical Instruction with example for both the 8085 and 8086 processor? (10)
(b) What do you mean by Interrupt in 8086? Explain their types? (10)

Q. 7. (a) Explain DMA with suitable diagram (10)
(b) Describe the working of 8237 processor (10)