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Subject:- Advance Microprocessor

Time : 3Hrs. M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

Q.1 8086 microprocessor is of _____ bits?

a) 2 b) 16

c) 8 d) 4

Q.2 Which of the following is the clock rate of 8086?

a) 5 MHz to 10 MHZ b) 4 MHz to 10 MHz

c) 3MHz to 10 MHz d) 5 MHz to 11 MHz

Q.3 Microcontrollers often have:

a) CPUs b) RAM

c) ROM d) all of the above

Q.4 A 8086 microprocessor is of _____ pins?

a) 10 b) 30

c) 40 d) 20

Q.5 Which of the following is pin 1 of 8086 processor?

a) GND b) VCC

c) CLK d) INTR

Q.29 Write a program for the addition of two 16 bit numbers.

Q.30 Explain Predefined interrupt?

Q.31 Explain different types of bus in 8051 microcontroller.

Q.32 Write any five application of 8086 microprocessor.

Q.33 Explain 80486 Microprocessor.

Q.34 Explain Pentium Processor.

Q.35 Write any five applications of 8051 Microcontroller.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

Q.36 Draw and explain pin diagram 8086 Microprocessor in detail.

Q.37 Explain 8051 microcontroller with block diagram.

Q.38 Write short note on following :

a) 80386 Microprocessor .

b) Math coprocessor 8087.

Q.6 ACF is known as_____?

a) Carry flag b) Conditional flag

c) Common flag d) Constant flag

Q.7 A microprocessor is a _____chip?

a) Silicon b) Germanium

c) Gallium d) Both b and c

Q.8 A 8086 microprocessor has _____ number of major units?

a) 2 b) 1

c) 2 d) 4

Q.9 The different ways in which a source operand is denoted is an instruction is known as

a) Instruction set b) Addressing Modes

c) 8086 Configuration d) Interrupts

Q.10 The 8051 has_____ 16-bit counter/timers.

a) 1 b) 3

c) 4 d) 2

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

Q.11 What is memory segmentation in 8086 Microprocessor.

Q.12 Write instruction format of 8086 Microprocessor.

Q.13 Write any one data transfer instruction.

Q.14 What is Assembler.

Q.15 How many types of interrupt are there in 8086 Microprocessor.

Q.16 How many pins are there in 8051 microcontroller?

Q.17 What is physical memory capacity of 80386 Microprocessor.

Q.18 Expand BIU.

Q.19 What is Pipelining.

Q.20 What is maskable interrupt?

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

Q.21 Explain immediate and implied addressing mode with example.

Q.22 Write any five features of Intel 8086 Microprocessor.

Q.23 Explain different flags of 8086 Microprocessor.

Q.24 Explain the function of accumulator register in 8086.

Q.25 Write any five differences between the NMI and INTR.

Q.26 What is the advantage of Memory Segmentation in 8086.

Q.27 Explain Minimum mode of 8086 Microprocessor.

Q.28 Explain the concept of memory interfacing.