QUESTION BANK

B.E. SEM V EC

GUJARAT UNIVERSITY

Advanced Microprocessors And Peripherals

Each Question Of 10 Marks

Q-1:Explain the block diagram of digital computer

Q-2:Give the classification of digital computer languages and explain low and high level languages in detail

Q-3:Explain microprocessor architecture in detail

Q-4:Explain 8-bit Intel' s 8085 processor in detail

Q-5:Explain architecture of 8086 CPU in detail

Q-6:Explain AAA,AAD,AAM,AAS,ADS,AND, and CALL instructions in detail

Q-7:Explain CBW,CLC,CLD,CLI,CMC and CMP instructions in detail

Q-8:Explain CWD,DAA,DAS,DEC,DIV and ESC instructions in detail

Q-9:Explain HLT,IDIV,IMUL,IN,INC,INT, and INTO instructions in detail

Q-10:Explain NOP,NOT,OR,POP,PUSH,RCL, and RCR instructions in detail

Q-11:Explain assembly language program development tools in detail

Q-12:Compare macros and procedures in detail

Q-13:Explain assembler directives and modular programming in detail

Q-14:Explain logical & arithmetic processing and loops in detail

Q-15:Explain micro computer bus types and buffering techniques in detail

Q-16:Explain 8086 maximum and minimum mode module in detail

Q-17:Explain types of memory in detail

Q-18:Explain CPU read/write timing in detail

Q-19:Explain SRAM and ROM interface requirements in detail

Q-20:Explain address decoding techniques in detail

Q-21:Explain interfacing dynamic RAM in detail

Q-22:Explain troubleshooting memory module in detail

Q-23:Explain parallel and serial I/O in detail

Q-24:Explain programmed I/O in detail

Q-25:Explain interrupt driven I/O in detail

Q-26:Explain directed memory access in detail

Q-27:Explain programmable peripheral interface (PPI) 8255 in detail

Q-28:Expalain Universal synchronous/Asynchronous receiver/transmitter(USART) 8251 in detail

Q-29:Explain programmable interrupt controller(PIC) 8259 in detail

Q-30:Expalin DMA controller 8237/57 in detail

Q-31:Explain keyboard and display controller 8279 in detail

Q-32:Explain interfacing of keyboard in detail

Q-33:Explain A/D converters in detail

Q-34:Explain D/A converters in detail

Q-35:Explain stepper motor interfacing in detail

Q-36:Explain microcomputer based scale and applications in detail

Q-37:Give introduction and main features of Pentium processor in detail

Q-38:Explain special registers in detail

Q-39:Explain features of Pentium Pro processors in detail

Q-40:Explain memory management in detail