SECTION-C

Note:Long answer type questions. Attempt any three questions. 3x10=30

- Q.3 Draw the pin diagram of 8051 and explain the function of various pins.
- Q.4 Explain the interfacing of LCD with 8051.
- Q.5 Explain the block diagram of PIC micro controller.
- Q.6 Explain the architecture of 8051 micro controller with the help of block diagram.
- Q.7 Write note (on any two)
 - a) De bugger.
 - b) Serial port operation.
 - c) Compiler Operation.

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6th Sem. / Power Eltx.

Subject: Micro Contr. & Applications

Time: 3 Hrs. M.M.: 100

SECTION-A

Note: Very Short Answer type questions. Attempt any 15 parts. (15x2=30)

- Q.1 a) What do you mean by interfacing.
 - b) Define machine language.
 - c) Define Simulator.
 - d) What is an embedded system?
 - e) Write any two data transfer instructions.
 - f) What is a Program counter?
 - g) Write and explain any MOV instruction.
 - h) Describe LCALL instruction.
 - i) Explain ORG directive.

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- j) List different special function registers of 8051.
- k) Write any two single bit instructions.
- I) What is asynchronous method of serial data communication?
- m) Expand ISR as used in 8051.
- n) What is an interrupt?
- o) The E pin is _____ pin for the LCD.
- p) Expand PCON and SCON.
- q) Explain the function of RST pin of 8051.
- r) What is a compiler?

SECTION-B

Note:Short answer type questions. Attempt any ten parts 10x4=40

- Q.2 i) What are assembler directives? Explain any two.
 - ii) Explain the I/O port structure of 8051.
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- iii) Write about RTC interface with 8051.
- iv) Explain PUSH instruction of 8051.
- v) Write applications of micro controller.
- vi) Differentiate between Assembler and Compiler.
- vii) What is a debugger? Explain.
- viii) Write a short note on Interrupts of 8051.
- ix) Explain memory organisation of 8051.
- Write a note on serial data communication in micro controller.
- xi) Name different addressing models. Explain any one.
- xii) Differentiate between micro controller and microprocessor.
- xiii) Explain any two arithmetic instructions of 8051.
- xiv) What are the main features of ARM?
- xv) Briefly explain the power supply circuit of 8051.

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