

- Q.26 List various application of embedded system.
 - Q.27 Write a short note on 8051 family.
 - Q.28 Explain two arithmetic instructions of 8051 with suitable example.
 - Q.29 Explain the function of each bit of PSW register.
 - Q.30 What is interrupt? Explain types of interrupt in brief.
 - Q.31 Define microcontroller & its types.
 - Q.32 What is stack & stack pointer? Explain.
 - Q.33 What are ARM microcontroller?
 - Q.34 How microcontroller is differ from microprocessor.
 - Q.35 What are the design parameters of an embedded system?

SECTION-D

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

- Q.36 Draw the pin diagram of 8051 and explain function of each pin.

Q.37 What do you mean by instruction? Explain data transfer type of instruction in detail.

Q.38 Explain PIC microcontroller in detail.

No. of Printed Pages : 4
Roll No.

181541

4th Sem / IC
Subject:- Microcontroller and Embedded System

Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.5 _____ is used for fetching instructions from the memory
a) Control unit b) Execution unit
c) Memory unit d) ALU
- Q.6 Microcontroller often have
a) CPU's b) RAM
c) ROM d) All of the above
- Q.7 Which of the following commands will copy the content of location 02 H to the accumulator
a) MOVA,L2 b) MOVA,02 H
c) MOVL2,A d) MOV 02H,A
- Q.8 The 8051 has _____ Pins
a) 32 b) 36
c) 40 d) 44
- Q.9 What does ISR Stands for?
a) Interrupt service routine
b) Interrupt software routine
c) Invalid service routine
d) Invalid standard routine
- Q.10 What the microcontroller executes some arithmetic operations, then the flag bit of which of following register are affected
a) DPTR b) PC
c) PSW d) SP

SECTION-B

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 Expand PSW.
Q.12 Write any two Data transfer instruction
Q.13 Define opcode?
Q.14 What is interrupt?
Q.15 Define instruction?
Q.16 What is microprocessor?
Q.17 CPU stands for _____ ?
Q.18 Write the full form of ROM.
Q.19 Internal RAM of 8051 is _____
Q.20 Define program counter?

SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 List the various application of advanced microcontroller in instrumentation and control field.
Q.22 Write atleast five difference between microcontroller and microprocessor.
Q.23 What are real times embedded system?
Q.24 What are different portions of internal RAM?
Q.25 What do you mean by addressing modes explain in brief.