



# ADITYA DEGREE COLLEGES

VI SEMESTER- PRE-FINAL

III BSC- PHYSICS CLUSTER

MICRO PROCESSOR AND MICRO CONTROLLER Max. Marks: 75

Time: A.N

Date :

## SECTION -A

**Answer Any Five Questions**

**5X 5 =25M**

1. Explain various challenges in embedded systems, design.
2. Write a short note on stack and programme counter.
3. Write short note on Hardware & Software interrupt.
4. Explain in brief various directive and data types in 8051.
5. Write short note on various files generated after cross compiling.
6. Write ALP to add two 8-bit number result is 8 - bit.
7. Write short note on TCON Register.
8. Write short note on Infinite loop.

## SECTION -B

**Answer All Questions**

**5 X 10 =50M**

9.a) Explain the architecture of an Embedded systems.

OR

b) Describe various application of Embedded systems.

10.a) Explain pin diagram of 8085.

OR

b) Describe instruction classification of 8085 microprocessor.

11 a) Explain Block diagram of 8051 micro controller.

OR

b) Explain types of instruction in 8051.

12 a). Describe timers programming of 8051 in different modes.

OR

b) Describe the structure of Embedded programme.

13) a) Describe Embedded product life cycle.

OR

b) Explain Embedded product Development Environment.