

16/17/12/22
STN (M)

Lib

Exam.Code:0929
Sub. Code: 6596

2122

B.E. (Electronics and Communication Engineering)
Fifth Semester
EC-506: Advanced Microcontrollers and Applications

Time allowed: 3 Hours

Max. Marks: 50

NOTE: Attempt five questions in all, including Question No. 1 which is compulsory and selecting two questions from each Unit.

x-x-x

I. Attempt the following:-

- a) Examples of sophisticated embedded systems
- b) MUL and DIV instruction
- c) Role of timer
- d) IP core
- e) Role of accelerometer (5x2)

UNIT - I

- II. Define Embedded System. What are the characteristics of Embedded Systems? (10)
- III. Explain the essential peripheral circuits for 8 bit microcontroller, (10)
- IV. Compare different microcontrollers used for embedded system designing. (10)

UNIT - II

- V. Explain the working and pin architecture of open source embedded development board using block diagram. (10)
- VI. Briefly explain the concept of input and output port of Embedded development board. Also write a program for Serial port interfacing (10)
- VII. Explain functional blocks of gesture control robot. (10)

x-x-x