

B.Sc.T.Y.(with Credits)-Regular-Semester 2012 Sem VI
B.Sc.4517 - Electronics Paper-I (Compulsory)
Microprocessor, Interfacing and Microcontrollers

P. Pages : 1

Time : Three Hours



GUG/S/18/5634

Max. Marks : 50

- Notes :
1. All questions are compulsory and carry equal marks.
 2. Draw a neat diagram wherever necessary.
 3. Use of log table/calculator is allowed.

Either

1. a) Draw block diagram and Explain. 10
i) Interfacing of LED display.
ii) Interfacing of 7 segment display with microprocessor.

OR

- b) What is bouncing of switch? How is it eliminated? Explain the software de-bouncing? 2+3
+5

Either

2. a) Explain the measurement of frequency and phase using microprocessor. 5+5

OR

- b) What is delay subroutine? Explain the delay subroutine using one register? Write a program for delay subroutine using one register? 2+3
+5

Either

3. a) Draw a block diagram of 8086 microprocessor and explain its working. 10

OR

- b) What is addressing mode? Explain the addressing mode of 8086 microprocessor. 10

Either

4. a) Explain the following of 8051 microcontroller. 10
i) Internal RAM organisation
ii) Special function register.
iii) Internal ROM.
iv) PORT.

OR

- b) Explain the use of PSW in 8051? Write a program in 8051 microcontroller for subtraction of two 8-bit numbers. 5+5

5. a) Draw a schematic diagram of multidigit display using microprocessor. 2½
b) Draw the block diagram of current measurement system using 8085µp. 2½
c) State any five data transfer instruction in 8086 µp. 2½
d) Write features of 8051 microcontroller. 2½
