V.P. & R.P. T. P.Science College.
T.Y.B.S.c (5th Semester) Electronics.

USO5CELEO2   1st Internal   Total marks 25

Date 30-09-2016 (Friday)   Time 11am to 12:30 pm

1 Choose correct answer for the following multiple choice questions .   (03)

  (1) A serial-in-serial-out shift register can also work as _____.
    (1) serial-in-serial-out.   (2) parallel-in-parallel-out.
    (3) parallel-in-serial-out.   (4)none of these.
  (2) In bidirectional-register data can be shifted from left to right and right to _____.
    (1) left   (2) right.
    (3) up   (4) none of these.
  (3) Carry generate function CG = _____.
    (1) A•B   (2) A+B
    (3) A-B   (4) none of these

Q2 Short question (Attempt any two).   (4)
   (1) Draw the logic diagram of 4-Bit parallel-in-parallel-out simple shift register.
   (2) Explain UART drawing diagram.
   (3) Draw the logic symbol of 74LS83 & labell each pin.

Q3 List different types of data transmission in shift register and explain its working
     in detail.   (6)
                    OR
Q3 Draw the neat logic diagram of 4-bit controlled buffer register and explain its
     working in detail.   (6)

Q4 Give an account of 4-bit Bidirectional register and explain its working in detail.   (6)
                    OR
Q4 List applications of shift register and explain any two in detail.   (6)

Q5 Explain TWO' Complements Addition and Subtraction using parallel adders.   (6)
                    OR
Q5 Give an account of comparator.   (6)