V.P & R.P.T.P SCIENCE COLLEGE

Sem: 5th, 01/10/2013
Tuesday

Q-5

Internal test DIGITAL ELECTRONICS US05CELE02

7. Y. B. Sc. 3:30 to 5:00 PM Total Marks: 30

[6]

[6] Q-1 **Choose Correct Answer** (1)Register are made of (A) Flip-flop (B) resister (C) diode (D) none of these or Resetting flip-flop. Loading of a register means (2)(D) None of these... (A) Setting (B) Re-setting (C) Erasing logic. Bidirectional register use (3)(B) OR-OR (C) AND-NOT (D) None of these A) AND-OR (4)Universal shift register uses logic. (A) AND-OR (B) OR-NOT (C) AND-OR-NOT (D) None of these Carry Generate function CG = (5)(C) A / B (D) None of these. (A) A B (B) A+B (6)gate is a basic comparator. (A) X-NOR (B) X-OR (C) AND (D) None of these. [6] Q-2 Answer the Questions. (Any Three, each two marks) (1)Draw the logic diagram of 4-bit parallel-in, Parallel-out simple shift register. Draw the logic diagram of 4-bit serial-in, Parallel-out shift register. (2)Draw the diagram of UART as Interfacing device and explain in brief. (3)Explain Johnson counter in brief. (4)Draw the logic symbol 74LS83 & label it. (5)Draw the Pin Diagram of 7485, 4-bit comparator and label it. (6)Q-3 List different types of Data Transmission in shift register and explain each of [6] them drawing diagram. OR Q-3 Give an account of Controlled buffer register. [6] Q-4 [6] Draw a neat diagram of universal shift register. OR Q-4 Give an account of Bidirectional shift register. [6] Q-5 Give an account of comparator. [6] OR

Draw the neat diagram of Look-Ahead carry adder.