Purnea College of Engg. Purnea

Objective Que. & Ans. Test-1

Sub:- DC
Branch-ECE, 4th sem.

Que:-1 How many 2:1 MUX are required to generate 2^n:1 MUX?

(a) 2^n (b) 2^n-1 (c) 2^n+1 (d) 2^{n-1}

Que:-2. What is the number of select lines required in 1:n DE-MUX?

(a) 2 (b) n (c) 2^n (d) $\log_2^n$

Que:-3. How many 2:1 MUX is required to realize 2-input Ex-OR logic gate?

(a) 1 (b) 2 (c) 3 (d) 4

Que:-4. In expression (A+BC), the total number of minterms?

(a) 2 (b) 3 (c) 4 (d) 5

Que:-5. How many 4:1 MUX are required to generate 512:1 MUX?

(a) 172 (b) 171 (c) 169 (d) 170

Que:-6. When two 4-bit parallel adders are cascaded, we get

(a) 4-bit (b) 8-bit (c) 16-bit (d) 17-bit ; parallel adder.

Que:-7. Look ahead carry is used to make adder —

(a) slower (b) faster (c) Minimize logic gates (d) None of these.

Que:-8. Boolean function of logic ckt shown in fig-1 is Y = ... ?

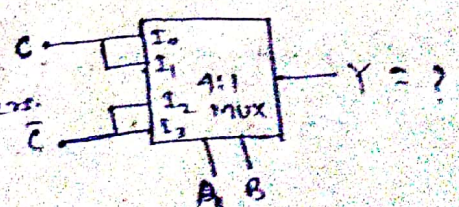

Fig-1.

Que:-9. "ASCII" Code has ..... characters.

Que:-10. Minimum No. of NAND gates realize to Ex-OR gate is .....?

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