

Digital Logic

DE MUX, ENCODER, DECODER

DPP - 4

1. How many select lines are required for a 1×8 demultiplexer?
(a) 2 (b) 3
(c) 4 (d) 5
2. How many AND gates are required for a 1×4 DeMUX?
(a) 1 (b) 2
(c) 3 (d) 4
3. How many inputs will a decimal to BCD encoder have?
(a) 4 (b) 8
(c) 10 (d) 6
4. How many OR gates are required for an octal to binary encoder?
(a) 3 (b) 2
(c) 8 (d) 10
5. For an encoder, number of input lines is n , then the number of output lines will be
(a) $\geq 2^{+1}$ (b) $\geq 2^m$
(c) $\leq 2^{m+1}$ (d) $\leq 2^m$

Answer Key

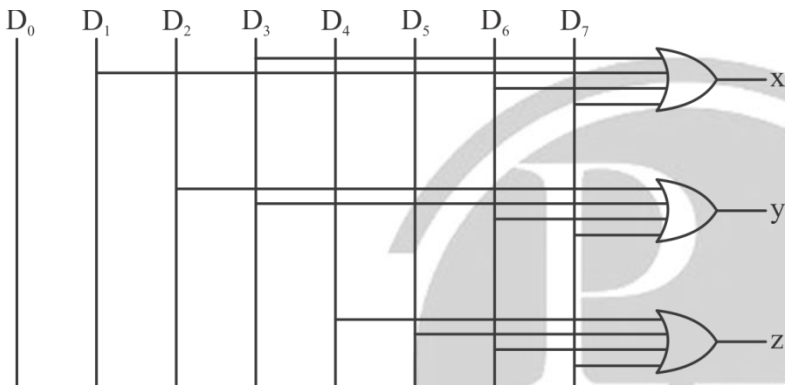
1. (b)
2. (d)
3. (c)

4. (a)
5. (d)



Hints and solutions

1. Output of Demux = 2^n
 where n = number of select lines
 $\therefore n = 3$ required
2. The number of AND gates = Number of output in Demux
- 4.



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