

LPUNEST – Ph.D. Electronics and Communication Engineering
(Sample Question)

- QUESTION 1** In IC Technology, Dry oxidation (using Dry oxidation) as compared to Wet oxidation (using steam or water vapor) produces _____
- Option A superior quality oxide with a higher growth rate
Option B inferior quality oxide with a higher growth rate
Option C inferior quality oxide with a lower growth rate
Option D superior quality oxide with a lower growth rate
- QUESTION 2** In a MOSFET operating in saturation region, the channel length modulation effect causes
- Option A an increase in gate source capacitance
Option B a decrease in transconductance
Option C a decrease in unity gain bandwidth product
Option D a decrease in output resistance
- QUESTION 3** In a 4 bit D/A converter, The offset error is the output voltage when input digital voltage is
- Option A 1111
Option B 0000
Option C Either 1111 or 0000
Option D None of these
- QUESTION 4** Which is known as flash converter?
- Option A Weighted resistor D/A converter
Option B Parallel A/D converter
Option C Stair step A/D converter
Option D Up – down counter type A/D converter
- QUESTION 5** The number of counter states which an 8 bit stair step A/D converter has to pass through before conversion is
- Option A 1
Option B 8
Option C 255
Option D 256