DVLSI-Unit Test 1	
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Quiz questions	
10 questions each for 1 mark each	
The is used to reduce the resistivity of poly silicon. *	1 point
Doping impurities	
O Photo resist	
None of the mentioned	
○ Etching	
The parameter which is not scaled to any factor is: *	1 point
Channel resistance	
O Power speed product O Switching energy	
All of the mentioned	
The chemical used for shielding the active areas to achieve selective oxide growth is? *	1 point
Silicon Nitride	
Silver Nitride	
O Polysilicon Hydrofluoric acid	
Trydrondone acid	
To grow the polysilicon gate layer, which of the following chemical is used for chemical vapour deposition? *	1 point
Silicon Nitride(Si3N4)	
Silane gas(SiH4)	
Silicon oxide	
None of the mentioned	
MOSFET has greatest application in digital circuit due to *	1 point
Low power consumption	
Small amount of space it takes on a chip	
All of the above Less noise	
Physical and electrical specification is given in*	1 point
O logic design	
functional design	
o architectural design	
System design	
The width of n-diffusion and p-diffusion layer should be? *	1 point
λ4λ	
2λ	
Ο 3λ	
The depletion N-channel MOSFET *	1 point
Can be operated as a JFET with zero gate voltage	
Cannot be operated as an enhancement MOSFET	
Can be operated as an enhancement MOSFET by applying -ve bias to gate Can be operated as an enhancement MOSFET by applying +ve bias to gate	
Can be operated as an enhancement MOSFET by applying +ve bias to gate	
A FinFET is classified as a type of *	1 point
Single-gate Metal Oxide Semiconductor Field Effect Transistor (MOSFET).	
O Both a and b	
O None of above	
multi-gate Metal Oxide Semiconductor Field Effect Transistor (MOSFET).	
VI SI technology usos to forms into supto district.	1-11
VLSI technology uses to form integrated circuit. *	1 point
transistorsbuffers	
O switches	
diodes	

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