

First Semester M.Tech. Degree Examination, June/July 2015
Digital VLSI Design

Time: 3 hrs.

Max. Marks: 100

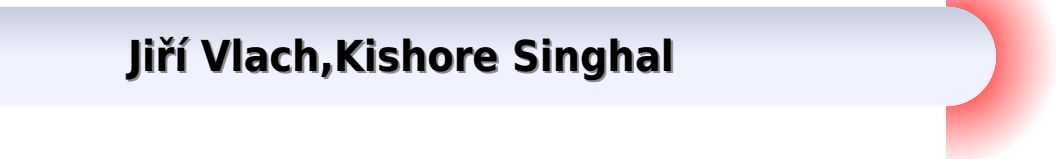
Note: Answer any FIVE full questions.

1.
 - a. Discuss gradual channel approximation concept in MOSFET and derive the current expression for MOSFET operating in saturation region. (10 Marks)
 - b. Discuss the second order effects of MOSFET and arrive at current expression for MOSFET in saturation region considering channel length modulation. (06 Marks)
 - c. Discuss how constant voltage scaling affects the current and power characteristics of MOSFET. (04 Marks)
2.
 - a. Discuss the voltage transfer characteristics of CMOS inverter mentioning the regions of operation and input and output voltages. (06 Marks)
 - b. Calculate V_{TH} for a CMOS inverter when $k_n = k_p$, $k_n = 2 k_p$ and $k_n = k_p/2$ with $V_{T_{on}} = 0.6 V$, $V_{T_{op}} = -0.7 V$ and $V_{DD} = 3.3 V$. From the calculations, discuss how variations in k_n and k_p affects V_{TH} ? (08 Marks)
 - c. With the neat schematic, mention the parasitic capacitances in the CMOS inverter? (06 Marks)
3.
 - a. Explain the concept of voltage bootstrapping. (05 Marks)
 - b. Discuss the charge sharing problem in CMOS circuits. Explain the various techniques used in domino CMOS logic for solving charge sharing problem. (10 Marks)
 - c. Design negative edge triggered D – Flipflop using true single phase clock (TSPC) dynamic CMOS logic. (05 Marks)
4.
 - a. Design 4×8 NOR based ROM array that can store the following data given in table 4(a). Note : $R_1, R_2, R_3, R_4 \rightarrow$ Address and $C_1, C_2, C_3, C_4, C_5, C_6, C_7, C_8 \rightarrow$ Memory Locations. (06 Marks)

R_1	R_2	R_3	R_4	C_1	C_2	C_3	C_4	C_5	C_6	C_7	C_8
1	0	0	0	0	1	0	1	0	1	0	0
0	1	0	0	1	1	1	0	0	1	0	0
0	0	1	0	1	0	0	0	0	0	0	0
0	0	0	1	1	1	1	1	0	1	1	1
- b. Draw a neat schematic of 6 T SRAM cell and discuss write '0' and read '0' operation? (10 Marks)
 - c. Explain the working principle of 3T DRAM cell. (04 Marks)
5.
 - a. Discuss CMOS switching power dissipation and derive the expression for average switching power dissipation. (06 Marks)
 - b. CMOS circuit consisting of 20 nodes with power consuming voltage transition (α_T) per clock cycle consumes a power of $10 \mu W$ for a give $C_{load} = 0.1 pF$ and $V_{DD} = 1.8 V$. Find the maximum operating frequency of the CMOS circuit if the node transitions is increased from 20 to 30. What is the change in switching power dissipation? (08 Marks)
 - c. Discuss briefly variable threshold CMOS and multi threshold CMOS circuits. (06 Marks)

Vlsi Design Question Papers

Jiří Vlach, Kishore Singhal



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bottom of box make your own gas mask box how to get started take a large sheet of stiff brown card and draw out the net shown above to the right size mark the middle of the bottom edge of the card and place the centre of line a there continue to draw the rest of the net and carefully cut it out score along the remaining lines as they are folds

free gas mask colouring colouring sheets teacher made - Apr 04 2022

ww2 gas masks gas mask box evacuee label activity world war two make your own gas mask box instructions and label gas mask augmented reality ar 3d quick look model simple ww2 spitfire activity paper craft display second world war ration book how to draw a ww2 plane for kids free step by step activity get to know us about us

home ww2 home front reproduction labels - Aug 08 2022

instructions sustainability shipping returns policies contact more 0 card gas masks these gas masks are designed to replicate the type of gas mask civilians used during world war 2 they are predominantly designed to be used by children for dressing up and there is a cardboard gas mask that can be donned for added authenticity

evacuee label activity teacher made twinkl - Feb 14 2023

teach children about evacuees and the second world war with these evacuee labels children can come to school dressed as wartime children wearing the evacuee label around their necks as part of a re enactment of the evacuation of the second world war

ww2 kids gas mask etsy - Jun 06 2022

browse a wide selection of ww2 kids gas mask and face coverings available in various fabrics and configurations made by a community of small business owners

free 3d model second world war gas mask teacher - Mar 03 2022

each gas mask was stored in a cardboard box and people were expected to carry their mask with them at all times people could be fined if they were caught in public without their gas masks if you have found this 3d model useful to take a closer look at a second world war gas mask you can explore more 3d models available to support learning

steam education pack 5 ww2 support materials museum of - May 17 2023

4 make your own gas mask box 5 make your own national registration identity card 6 make your own ration book 7 make your own evacuee label 8 clothes rationing men and boys 9 government evacuation scheme notice to parents of school children 10 practice your own morale boosting ww2 song 11 a chronology of war

evacuee gas mask box labels evacuation ww2 facts ks2 - Sep 21 2023

teach children about evacuees and the second world war with these brilliant printable evacuee gas mask box labels helping them understand wartime events that occurred in an imaginative way it will give them an insight into real life events and keep them engaged in

gas mask simple english wikipedia the free encyclopedia - Sep 09 2022

a gas mask is a kind of mask that fits over the face area and nose it protects from poison gases and many other hazards in the air during world war ii gas masks were sent all over england they were worn everywhere even to sleep in case of surprise attack however the germans didn t attack with gas bombs

gas masks ww2 fact file kidadl - Jan 13 2023

jan 6 2023 gas masks were issued to children and grown ups in case the nazis unleashed a gas attack on britain your kids might be more familiar with the facts around the world war thanks to the ve day celebrations but here we will focus on what they need to know about gas masks what were gas masks used for every adult and child in britain was given

make a gas mask ely musem - Jun 18 2023

history at home with ely museum make during the second world war a gas masks gas mask were issued to everyone including children and babies as a precaution against attack by gas bombs the masks came in cardboard boxes

primary history ks2 ww2 clips gas mask drill at primary school - Mar 15 2023

gas masks were issued to all children as a precaution against attack by gas bombs the masks came in cardboard boxes with a strap for carrying them on the shoulder children were

evacuee gas mask box labels evacuation ww2 facts ks2 - Apr 16 2023

use these evacuee gas mask box labels to teach evacuation ww2 facts ks2 this will help your class learn what children experienced in wartime england teach children about evacuees and the second world war with these brilliant printable evacuee gas mask box labels helping them understand wartime events that occurred in an imaginative way

box respirator gas mask the national archives - Dec 12 2022

return to medicine on the western front part two instruction leaflet to explain to soldiers how to use a box respirator for protection during a gas alarm catalogue ref wo 142 183 transcript directions of use of small box respirator at ordinary times the haversack containing the box respirator is to be

mickey mouse gas masks and baby gas masks in ww2 uk me - Nov 11 2022

there were special gas masks for children and babies against poisonous gas in ww2 this page describes the children s gas mask which was made to look like mickey mouse with a fluttering nose as the child breathed and the babies gas mask which was enclosed and had to be pumped by hand

ww2 paper gas mask template history parents twinkl - Aug 20 2023

they just need to cut fold and stick the template together to assemble the box then stick the printable gas mask box labels on the side and they re all set the resource comes with an immersive ww2 style label to stick on the box once it s been assembled