ICT-2103 - Digital Logic Design

Date: 10.11.20

Annuew to the question no-3 Answer to the question no-1

De morgalies theorem are bosically two sets

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de false sent es brook & sidnieres

box & True so of relations togot set

Convented from one form of a Boolean

Answer to the question no -2

OR gates

De Moneyand first miles!

De mongains finit theorem Prives that when two Input variables ane, AND and

negled they are equivalent to the OR

of the complements of the individual

Variable.

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## Answer to the question no-3

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pe mongan's theorem are basically two sets of rules developed from the Boolean expressions for AND, OR and NOT using two input variable A and B. These two rules allow the input variables to be negated and converted from one form of a Boolean function into an opposite form

## De Monganis first rules; 2010 80

De monganis finst theorem Proves that when two input variables are AND and negled they are equivalent to the OR of the Complements of the individual Variable.

Example: A.B = A+B

## De Mongan's Second Rules

De Mongan's Second theorem Proves that when two input variable are OR and negated they are equividual to the AND of the complements of the individual variable.

Example: A+B = A.B

## Answer to the question no - 9

Bubble Pushing is a technique to apply
De morgan's theorem directly to the logic
diagram.

- 1. change the logic gate
- 2. Add bubbles to the input and output where there were on none and remove the original bubbles.

De Mongan's Second Rules : slymax3

De Mongan's Second through Phove that

The Mongated they are equividual to the and

The property of the facetion not the subject to apply

Bubble Pushing is a technique to apply

De Mangan's theorin directly to the logic diagraphonin.

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