Nome = Pryonehu Veneral Driversity 20 = 21011st Section = A

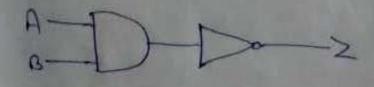
Ans-1 3) The NAND gate is a combination of an AND chate and Not gate. They are connected is cascade form. It is also called Negotial and gate the NAND gate Provides the folse or low outfut only when their outfute is high or true. The NAND gate is ensorted because different tyles of a boolean function are implemented by using it

The NAND gate has the Prolonty cy Junctional completeness. The Junction completeness means any tyles by Jutes can be implemented by using the NAND gate. It largorms the function cy of, NOT and AND gate.

The dogic symbol for the gate is Ahown belows



The logic circuit of the NAND gote is shown Ldow



form the logic circuit, the outlet can be ... entrused in.

Z= A.B

The equation is need as "Zequals NOT A ANDB" Since the Logic christist involves on AND gate followed by an inventor. The outlat can only be low when both the inPerts on high

The truth teible of the NAND gate is gien below.

A B Z

0 1 1

1 0 1

from the truth table of the gate, it is clear that all the inferts must be kigh to get a low outline and it gry of the infat is low, the output obtained will be high. If any one you outland is also high the control will be high that is I

Proposts