Show that the hypothesis “If I take the day off, it either rains or snows”, "I took Tuesday off or I took Thursday off." "It was sunny on Tuesday". Lead to the conclusion “It did not snow on Thursday”.

Show that the hypotheses "If you send me an e-mail message, then I will finish writing the program", "If you do not send me an e-mail message, then I will go to sleep early", and "If I go to sleep early, then I will wake up feeling refreshed" lead to the conclusion "If I do not finish writing the program, then I will wake up feeling refreshed." using rules of inferences.

integer.

What do mean by valid arguments. Construct an argument using rules of inference to show that the hypotheses "If it does not rain or if it is not foggy, then the sailing race will be held and the life saving demonstration will go on," " If the sailing race is held, then the trophy will be awarded,' and "The trophy was not awarded" imply the conclusion " It rained".

What is

What are valid arguments? For the set of premises "If I play hockey, then I am sore the next day." "I use the whirlpool if I am sore." "I did not use the whirlpool". What relevant conclusion can be drawn? Explain the rules of inference used to draw the conclusion.

What is proposition? Give an argument using the rule of inference to show that the conclusion follows from the hypothesis. 8

"If it does not rain or if it is not foggy, then the sailing race will be held and the lifesaving demonstration will go on," "If the sailing

race is held, then the trophy will be awarded," and "The trophy was not awarded" imply the conclusion "It rained."

State the rules of Inference for quantified statements. Give an argument using the rules of inference to determine whether the conclusion follows from the given hypothesis or not.

To win a gold medal, the athlete must be very fit. If he does not win the gold medal, then either he arrives late for the game or his training was interrupted. If he is not fit for the game, he will blame his coach. If he blames his coach or his training is interrupted, then he will not get into the final. Therefore if he gets into the final, he will not have arrived late.

a) Give an argument using rules of inference to show that the conclusion follows from the hypothesis.

Hypothesis: "If it does not rain or if it is not foggy, then the sailing race will be held and the lifesaving demonstration will go on," "If the sailing race is held, then the trophy will be awarded,' and "The trophy was not awarded." Conclusion: "It rained"

Sate the rules of Inference for quantified statements. Give an argument using the rules of inference to show that the conclusion follows from the hypotheses. I take the bus or I walk. If I walk I get tired. I do not get tired. Therefore I take the bus.

Show that the hypotheses:

- It is not sunny this afternoon and it is colder than yesterday.
- We will go swimming only if it is sunny.
- If we do not go swimming, then we will take a canoe trip.
- If we take a canoe trip, then we will be home by sunset.

lead to the conclusion:

- We will be home by the sunset.

Verify the validity of the following argument by using rules of Inferences:

If Sanjay does not work in a bank, then he is not a bank manager.

Sanjay does not use Tally.

If Sanjay works in a bank, then he uses GNUCash.

Either Sanjay is a bank manager or he uses Tally.

Hence, Sanjay uses GNUCash.

Give an argument using the rules of inference to determine whether the conclusion follows from the given hypothesis or not. To win a gold medal, the athlete must be very fit. If he does not win the gold medal, then either he arrives late for the game or his training was interrupted. If he is not fit for the game, he will blame his coach. If he blames his coach or his training is interrupted, then he will not get into the final. Therefore if he gets into the final, he will not have arrived late.