Assignment No. 03

Deadline date:
Your assignment must be uploaded/submitted before or on May 19, 2010.

Assignment Marks: 20

Uploading instructions
Please view the assignment submission process document provided to you by the Virtual University to upload the assignment.

Rules for Marking
It should be clear that your assignment will not get any credit if:

- The assignment is submitted after due date
- The assignment is copied

Objective

- To learn and understand basic concepts of CNF and Refutation.

Problems

Q 1) Perform steps to convert \((A \rightarrow B) \rightarrow C\) to CNF Marks 5

Q 2) Perform steps to convert the following to CNF Marks 5

\[ A \leftrightarrow (B \land C) \]

Where \( A \leftrightarrow B \equiv (A \rightarrow B) \land (B \rightarrow A) \)

Q 3) Using refutation, determine whether the following logical argument is valid:

If it rains and I don't have an umbrella, then I will get wet.
It is raining, and I don't have an umbrella.
Therefore, I will get wet. Marks 10