Name: _____ Points: _____

I. Statement and Quantifiers

Determine whether the following statements are conjunctive or disjunctive.

a. We work on Memorial Day or Memorial Day is a holiday.

b. One hour is equal to exactly 59 minutes or one hour equals exactly 60 minutes.

c. 60 is an even number and it is not truth that one hour is equal to 59 minutes.

d. I haven't decided yet if I'm going to watch the cricket match or to the library to study.

e. Either I pass my test or I fail my course.

II. Truth Table

Write a truth table for each statement (show your work).

$$\backsim (P \wedge \sim Q)$$

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a. $(P \wedge Q) \Longrightarrow (P \wedge R) \vee (Q \wedge R)$

III. **Unit Conversions**

Convert each measurement to the specified unit

a. 55km= _____cm b. 39m= _____inches c. 14 yards= _____m

d. 3,256.dm= _____cm e. 25 inches= _____mm f. 0.0034 dam = _____hm

g. Light travels at 186,283 miles every second. How many feet per hour does light travel?

h. How many miles will a runner cover in a 20 km race?

i. If the value for one dollar equals 146 SL rupees then how much is 9,587 SL rupees in dollars.

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