

Philosophy 201
Practice Test #2

Section I: Translations (7 x 3 marks each = 21 marks)

Use the abbreviations given to symbolize the following statements.

R = The team is well rested.	O = The officiating is poor.
C = The crowd is behind us.	S = Our star player plays her best.
T = Ticket sales are good.	F = We make it to the finals.
W = We win the game.	I = Our team is plagued with injuries.

a) The crowd is behind us only if our star player plays her best and we make it to the finals.

b) We will not win the game if the officiating is poor or our team is plagued with injuries.

c) The team is well rested and tickets sales are good but if we don't make it to the finals then the crowd won't be behind us.

d) Our team is plagued with injuries whenever the team is not well rested and our star player does not play her best.

e) Neither the officiating is poor nor our team is plagued with injuries only if we make it to the finals.

f) It is not the case that both ticket sales will be good and the crowd will be behind us, but we will make it to the finals provided our star player plays her best

g) Unless the team is well rested and the crowd is behind us, our star player will not play her best and we will not win the game.

Section II: Short Answer (3 x 3 marks each = 9 marks)

a) Use a truth table to show that the argument pattern modus ponens is valid.

b) Determine the truth value of the following sentence when A, B are true, X and Y are false, and S and P have unknown value. Show your work.

$$(A \ \& \ X) \vee \sim[(Y \rightarrow S) \ \& \ (P \vee (B \ \& \ (S \rightarrow S)))]$$

c) Use the abbreviations given in Section I to give three different English translations of the following statement.

$$R \rightarrow F$$

Section III: Truth Table (10 marks)

Use either a full or partial truth table to determine whether or not the following argument is valid.

$$(P \vee Q) \rightarrow \sim (R \ \& \ S)$$

$$\sim(R \ \& \ P) \rightarrow \sim S$$

$$\underline{\sim(P \vee Q) \vee S}$$

$$(S \vee P) \rightarrow \sim(Q \ \& \ R)$$

[illegible]

Section IV: Short Truth Table (10 marks)

Use a short truth table to determine whether or not the following argument is valid.

$S \rightarrow \sim(R \vee A) \quad / \quad A \rightarrow (W \vee \sim D) \quad / \quad R \vee (W \rightarrow B) \quad / \quad S \& U \quad // \quad U \rightarrow B$

--- End of Practice Test 2 ---