AP[®] MICROECONOMICS 2007 SCORING GUIDELINES

Question 3

6 points (1 + 1 + 1 + 2 + 1)

- (a) 1 point:
 - One point is earned for identifying the market as an oligopoly, since there are only two firms and their actions are mutually interdependent.
- (b) 1 point:
 - One point is earned for stating that Rankin Wheels will choose early departure.
- (c) 1 point:
 - One point is earned for stating that Roadway's dominant strategy is early departure.
- (d) 2 points:
 - One point is earned for stating that early departure is not a dominant strategy for Rankin Wheels.
 - One point is earned for reasoning that if Roadway chooses a late departure, Rankin Wheels is better off choosing a late departure.
- (e) 1 point:
 - One point is earned for identifying \$900 as Rankin Wheels' daily profit.

3

Write in the box the number of the question you are answering on this page as it is designated in the exam. 34

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Write in the box the number of the question you are answering on this page as it is designated in the exam.

3a) The companies are operating in a perfec competitive market structure because there are multiple companies offering the same modult.

3R

36) He Roadway is departing early Ranking Autherly Mould also depart early to make the most profit

3_{C,} Roadway's dominant strategy is to depart by because they make more prop gardlen of Rankin' Wheels' decision

No, because Rankin Wheels has tunity to make more profes sadway if it departs late.

Pankin Wheels daily profit will be

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Write in the box the number of the question you are answering on this page as it is designated in the exam.

3 30

in the second market structure operate \$1850.00 oadway is at \$ 950,00 and Rank n at the most Caupe they Ure paid evel. one making \$ 850.00 Inelate oadway's dominant strategy take And the Choosing an early departure for Ø not a dominant Strategy antin because profits will decrease. They make less at departure passe compared to a late de parture. The Rankin's daily protit would be \$16.50 00

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AP[®] MICROECONOMICS 2007 SCORING COMMENTARY

Question 3

Overview

The purpose of the question was to determine students' understanding of basic game-theory concepts.

Sample: 3A Score: 6

The student earned all points in this question.

Sample: 3B Score: 4

The student lost 1 point in part (a) for incorrectly identifying the market structure. The student lost 1 point in part (d) for an inadequate explanation of why leaving early is not Rankin Wheels' dominant strategy.

Sample: 3C Score: 2

The student earned 1 point in part (c) for stating correctly Roadway's dominant strategy and 1 point in part (d) for concluding correctly that leaving early is not Rankin Wheels' dominant strategy.