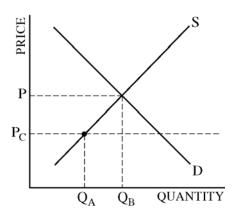
AP® MICROECONOMICS 2008 SCORING GUIDELINES

Question 3

7 points (3 + 4)



(a) 3 points:

- One point is earned for a correctly labeled supply and demand graph with a price ceiling indicated below the market equilibrium.
- One point is earned for correctly labeling Q_A .
- One point is earned for correctly labeling Q_B .

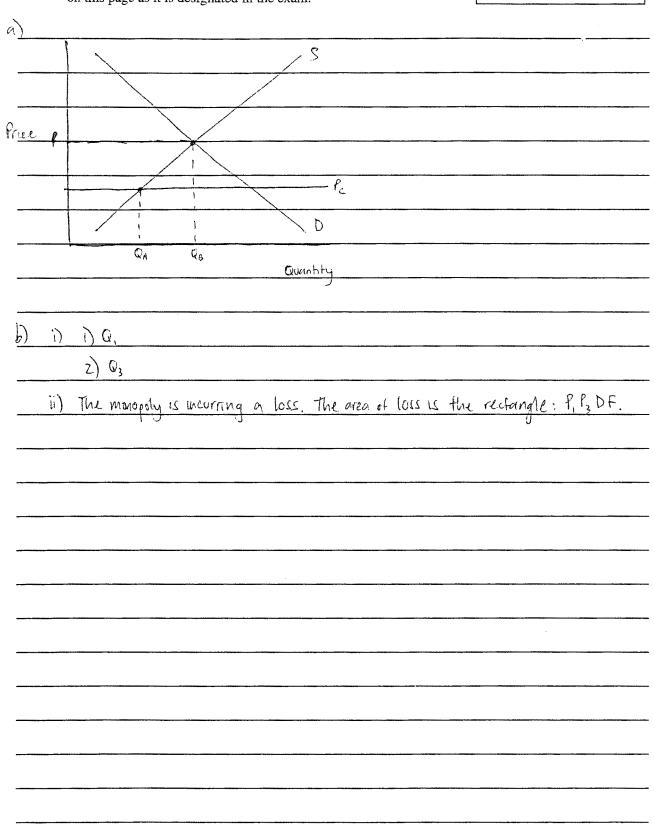
(b) 4 points:

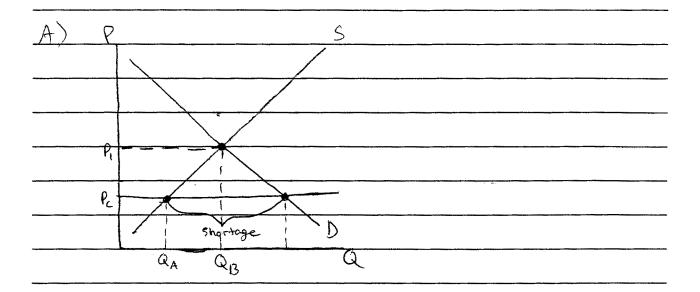
(i) 2 points:

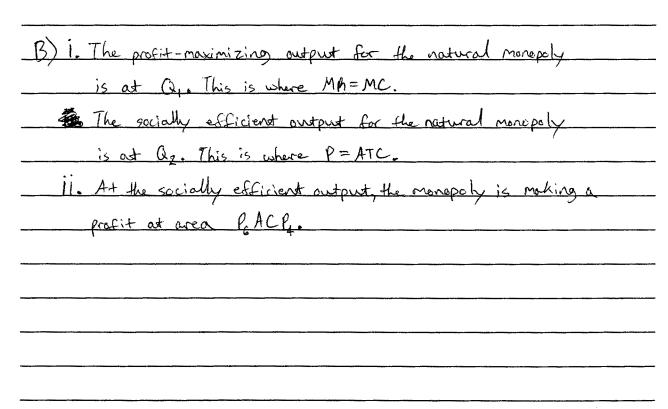
- One point is earned for identifying Q_1 as the profit-maximizing output.
- One point is earned for identifying Q_3 as the socially efficient output.

(ii) 2 points:

- One point is earned for recognizing that at Q_3 , the monopolist incurs a loss.
- One point is earned for identifying the area of loss, P₁P₃DF.







AP® MICROECONOMICS 2008 SCORING COMMENTARY

Question 3

Overview

The question assessed the ability of students to understand pricing and output decisions under various conditions for a perfectly competitive market and for a natural monopoly. Part (a) asked students to draw a binding price ceiling in a competitive market and identify the quantity sold and the socially efficient output. Part (b) asked students to identify from a provided graph of a natural monopoly the profitmaximizing output and the socially efficient output and to identify profit or loss at the latter.

Sample: 3A Score: 7

All parts are correctly answered.

Sample: 3B Score: 4

The student lost 1 point in part (b)(i) for identifying the socially efficient output as Q_2 instead of Q_3 . The student lost 2 points in part (b)(ii) for incorrectly identifying a profit at Q_2 and for identifying an area of profit/loss that is inconsistent with the choice of Q_2 .

Sample: 3C Score: 2

In part (a) the student earned 1 point for correctly drawing the price ceiling below market equilibrium and 1 point for correctly identifying and labeling Q_A where the price ceiling intersects the supply curve.