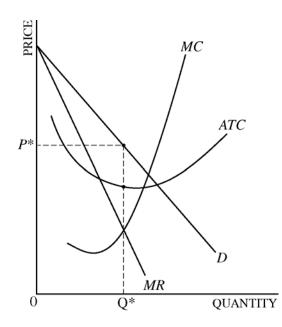
AP[®] MICROECONOMICS 2007 SCORING GUIDELINES

Question 1

12 points (4 + 3 + 3 + 2)



- (a) 4 points:
 - One point is earned for correctly labeled axes and an MR curve below a downwardsloping demand curve.
 - One point is earned for showing profit-maximizing Q at MC=MR.
 - One point is earned for identifying P on the demand curve above Q.
 - One point is earned for showing that P>ATC at Q.
- (b) 3 points:
 - One point is earned for concluding that profit-maximizing Q and P will not change.
 - One point is earned for correctly explaining that the lump-sum tax will not affect MC.
 - One point is earned for concluding that profits will decrease.
- (c) 3 points:
 - One point is earned for concluding that profit-maximizing Q will increase and P will decrease.
 - One point is earned for explaining that the MC curve shifts down.
 - One point is earned for concluding that profits will increase.
- (d) 2 points:
 - One point is earned for concluding that GCR's profits will fall in the long run.
 - One point is earned for stating that new firms will enter the market.

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

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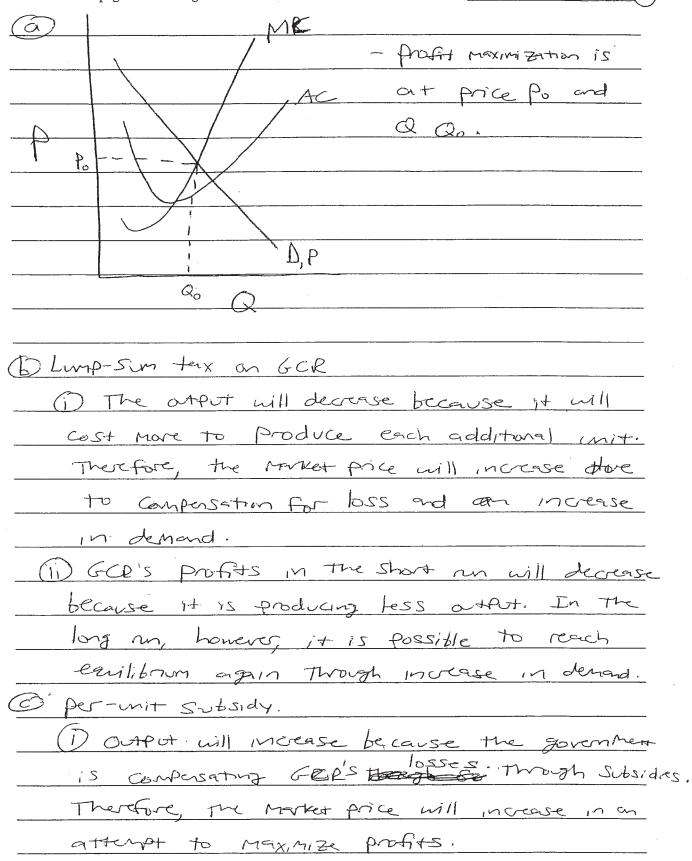
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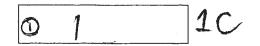
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1B, Write in the box the number of the question you are answering on this page as it is designated in the exam. Ĉ ECR'S will Drofits ncrase because 71 Selling the product high be at č٦ varable Cost. owes aves age \sim (d GCR'S long profits The u11 \sim mus 10 Cause The xit? into The J decreased Therefore creating. retition Ca GCR w111 less of ince Cantrol the Ket have 10 laver its nli prices to Compete with Firms thus decressi er 145 4.

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P	s	· · · · · · · · · · · · · · · · · · ·		······
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	Q			·

b) i: IF THE GOVERNMENT IMPOSES A LUMP SUM TAX ON GOR THE OUTPUT WILL
DECLINE AND THE MARKET PRICE WILL GO UP THE PRICE WILL GO UP AS THE COMPANY
NOW HAS TO COMPENSATE FOR MONEY LOST THROUGH THE TAX
II: GICR'S PROFITS WILL GO DOWN DUE TO THE TAX BECAUSE LESS PEOPLE WILL
BE INCLINED TO BUY THE PRODUCTS AT SUCH A HIGH PRICE AND THE COMPANY
WILL CONTINUE TO PRODUCE LESS.
c) i : IF THE GOVERNMENT GRANTS A PER-UNIT SUBSIDY TO GOR FOR A S. P.Y. THE OUTPUT
WILL GO UP AND THE MARKET PRICE WILL GO DOWN. GCR WILL ATTEMPT TO
SELL AS MANY SOFTWARE PRODUCTS AS POSSIBLE IN ORDER TO GAIN EXTRA MONEY
FROM THE SUBSIDY. IF THE PRICE IS LOWERC, MORE PEOPLE WILL BUY THUS REQUIRING
GREATER OUTPUT.
D) WHEN THE PATEINT EXPIRES, GICK'S ECONOMIC PROFITS WILL GO DOWN SUGHTLY IN
THE LONG IEUN DUE TO COMPETITION, BUT THEY WILL STAY ANGAD DUE TO CONSUMER
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AP[®] MICROECONOMICS 2007 SCORING COMMENTARY

Question 1

Overview

This question assessed students' ability to recognize and graph a monopoly and to determine the effect of various changes on the output, price, and profits of the monopolist. Part (a) asked students to graph a monopoly that is earning positive economic profits. Parts (b) and (c) required them to determine the effects of, respectively, a lump-sum tax and a per-unit subsidy. In part (d) students had to explain the effect of patent expiration on economic profits.

Sample: 1A Score: 12

The student earned all points in this question.

Sample: 1B Score: 6

The student lost 2 points in part (a) for failing to show a marginal revenue curve below demand curve and the profit-maximizing level of output at MR = MC. The student lost 2 points in part (b)(i) for incorrectly concluding that both price and output will change and for not providing the correct explanation. The student lost 2 points in part (c)(i) for incorrectly concluding that price will increase and for not providing the correct explanation.

Sample: 1C Score: 3

The student earned 1 point in part (b)(ii) for the assertion that profits decrease and 1 point in part (c)(i) for stating the correct directional change in price and quantity. The student earned 1 point in part (d) for correctly noting that profit will decrease.