3.7 Firms' Costs, Revenue & Objectives Question Paper

Course	CIEIGCSEEconomics
Section	3. Microeconomic Decision Makers
Topic	3.7 Firms' Costs, Revenue & Objectives
Difficulty	Medium

Time allowed: 30

Score: /24

Percentage: /100

The table shows a firm's total revenue and total cost at different levels of output.

Which level of output gives maximum profit?

	output (units)	total revenue (\$)	total cost (\$)
Α	10	15	15
В	20	20	18
С	30	25	20
D	40	30	21

[1 mark]

Question 2

The table shows the output and total costs of a small firm.

output (units)	total costs (\$)
0	50000
1000	100000
5000	400000
10000	60000

What is the average fixed cost of producing 10 000 units?

A. \$5

B. \$6

C.\$55

D.\$60

A firm has fixed costs of \$1000. The table shows the variable cost at different levels of output.

output (units)	1	2	3	4
variable cost (\$)	100	190	270	350

If the goods are sold for \$500 each, how much profit will be made from the sale of 4 units?

- A. \$650
- B. \$1000
- C. \$1650
- D. \$2000

[1 mark]

Question 4

The table shows the costs of a firm.

variable cost per good	fixed cost
\$2	\$40

What is the average total cost if the firm produces 20 goods?

- A. \$1
- B. \$2
- C.\$4
- D.\$80

[1 mark]

Question 5

When is profit maximisation achieved?

- A. when average fixed cost is at a minimum
- B. when average revenue is at a maximum
- C. when the firm produces the largest output it can with the resources it has available
- D. when there is the greatest possible difference between total revenue and total cost

A firm producing bicycles has the following costs at different levels of output.

output total fixed costs (\$)		total variable costs (\$)
10	300	800
20	300	1500
30	300	3300

What happens to the average total cost over this range of output?

- A. It falls continuously.
- B. It falls then rises.
- C. It rises continuously.
- D. It rises then falls.

[1 mark]

Question 7

When will a firm maximise its profits?

- A. when it excludes a rival supplier from the market
- B. when it produces where average cost and average revenue are equal
- C. when it sells as many products in as many different markets as it can
- D. when the difference between total cost and total revenue is greatest

The table shows the costs of a firm.

variable costs (\$)	total costs (\$)
20	80
50	110
80	140
110	170
	(\$) 20 50 80

What is the value of the firm's fixed costs?

- A. \$20
- B. \$30
- C.\$60
- D.\$80

[1 mark]

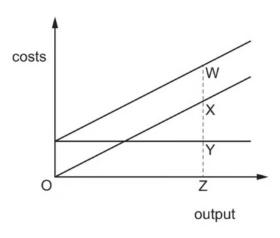
Question 9

A firm's average revenue is \$10. It sells 2000 units.

What is the firm's total revenue and the price of the product?

	total revenue (\$)	price (\$)
Α	10	10
В	2000	200
С	20000	10
D	20000	200

The diagram shows the fixed costs, variable costs and total costs of a firm.



Which distance represents the firm's fixed costs?

- A. WX
- B.WY
- C.XY
- D. XZ

[1 mark]

Question 11

An entrepreneur buys a workshop for \$200 000 to make plastic boxes. In the first year of operation he spends \$70 000 on materials, employs ten production workers paid by the amount produced (piece rate) at a total cost of \$80 000 and buys two delivery vehicles for \$10 000 each.

What are his total variable costs?

- A. \$100 000
- B. \$150 000
- C.\$220000
- D. \$370 000

In the short run, a firm calculates its total fixed cost, total variable cost and total cost. It then plots a graph showing how they change as output increases.

What happens to the lines showing the total variable cost and total cost as output increases?

- A. They merge to become one curve.
- B. They move closer together.
- C. They move further apart.
- D. They remain a constant distance apart.

[1 mark]

Question 13

A firm has fixed costs of \$1000. The table shows the variable cost at different levels of output.

output (units)	1	2	3	4
variable cost (\$)	100	190	270	350

If the goods are sold for \$500 each, how much profit will be made from the sale of 4 units?

- A. \$650
- B. \$1000
- C. \$1650
- D. \$2000

The table shows the total cost of firm X at each level of output.

output	total cost
0	3
1	5
2	6
3	9

At which level of output does total variable cost exceed total fixed cost?

- A.O
- B.1
- C.2
- D. 3

[1 mark]

Question 15

A firm has fixed costs of \$1000. The table shows the variable cost at different levels of output.

output (units)	1	2	3	4
variable cost (\$)	100	190	270	350

If the goods are sold for \$500 each, how much profit will be made from the sale of 4 units?

- A. \$650
- B. \$1000
- C. \$1650
- D. \$2000

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What must res	ult trom a	an increase	ın.	OUITOUT?
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- A. a decrease in the average cost
- B. a decrease in the total costs
- C. an increase in the fixed costs
- D. an increase in the variable costs

[1 mark]

Question 17

A firm producing bicycles has the following costs at different levels of output.

output	total fixed costs (\$)	total variable costs (\$)
10	300	800
20	300	1500
30	300	3300

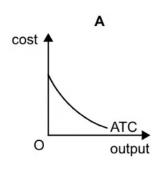
What happens to the average total cost over this range of output?

- A. It falls continuously.
- B. It falls then rises.
- C. It rises continuously.
- D. It rises then falls.

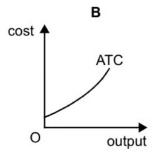
The diagrams show the average total cost (ATC) curves of four firms and how they change as output increases.

Which firm has the highest fixed costs?

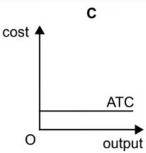
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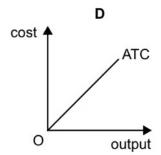
В.



C.



D.



Why is the energy supply industry dominated by very large firms in many economies?

- A. Government controls prevent the exploitation of consumers.
- B. High fixed capital costs exist.
- C. Labour-intensive production techniques are used.
- D. Non-price advertising increases competition.

[1 mark]

Question 20

An entrepreneur buys a workshop for \$200 000 to make plastic boxes. In the first year of operation he spends \$70 000 on materials, employs ten production workers paid by the amount produced (piece rate) at a total cost of \$80 000 and buys two delivery vehicles for \$10 000 each.

What are his total variable costs?

- A. \$100 000
- B. \$150 000
- C. \$220 000
- D. \$370 000

[1 mark]

Question 21

The table shows a firm's average revenue and average cost at different levels of output.

When all output is sold, which level of output gives maximum profit?

	output (units)	average revenue (US\$)	average cost (US\$)
Α	5	10	30
В	10	20	20
С	15	25	15
D	20	30	18

Which statement about total fixed cost is correct?

- A. It falls as output increases.
- B. It is calculated by adding total cost and total variable cost.
- C. It is calculated by dividing total cost by output.
- D. It must be paid even if output is zero.

[1 mark]

Question 23

A firm that sells its product for \$6 a unit has the following total costs.

output (units)	0	10	20	30
total costs (\$)	40	100	120	150

Which statement is correct?

- A. Average cost is lowest when 10 units are produced.
- B. The firm does not make any profit when 20 units are sold.
- C. The firm has no fixed costs.
- D. Total variable costs fall continuously over these outputs.

[1 mark]

Question 24

Which statement about fixed costs is correct?

- A. They exist only in the long run.
- B. They include raw material and direct labour costs.
- C. They increase at the same rate as output.
- D. They must be paid even if there is no output.

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