



**SILESIAN
UNIVERSITY**

SCHOOL OF BUSINESS
ADMINISTRATION
IN KARVINA

Sample Test Questions for the Entrance Examinations for Entry into the First Year of the Master's Degree Programme

MICROECONOMICS

Microeconomics is the branch of economics that analyzes the market behavior of individual consumers and firms in an attempt to understand the decision-making process of firms and households. Sample test questions (7) for the online entrance test are divided into two baskets by difficulty (basket 1 - easy questions, basket 2 - more difficult questions). Correct answer could be verified in the last column of the table.

	Basket	Sample test question	Answer (A)	Answer (B)	Answer (C)	Answer (D)	Correct answer
1.	1	Declining demand is not characteristic for:	luxury goods	inferior goods	giffen's goods	goods with negative preferences	c
2.	1	If the income elasticity is less than zero it deals with the good:	normal	rare	luxury	inferior	d
3.	1	The average income is equal to the price in the conditions of:	monopoly	oligopoly	perfect competition	each market structure	d
4.	1	To the market failure belong:	private goods	positive externalities	perfect information	perfect competition	b



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Basket	Sample test question	Answer (A)	Answer (B)	Answer (C)	Answer (D)	Correct answer	
5.	2	The difference between the amount for which the producer is able to produce the product, and the amount that actually receives, is known as:	optimum of producer	surplus of producer	company's profit	average costs	b
6.	2	How much is the annual percentage return on capital, when we invest CZK 10 today and get CZK 14 in the year?	14%	10%	40%	4%	c
7.	2	What is the price elasticity of demand for goods, when the demanded quantity increases by 280% with 40% discount of goods?	0	-7	7	0.14	b



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MACROECONOMICS

Macroeconomics is a branch of the economics field that studies how the aggregate economy behaves. It focuses on trends in the economy and how the economy moves as a whole. Sample test questions (7) for the online entrance test are divided into two baskets by difficulty (basket 1 - easy questions, basket 2 - more difficult questions). Correct answer could be verified in the last column of the table.

Basket	Sample test question	Answer (A)	Answer (B)	Answer (C)	Answer (D)	Correct answer	
1.	1	Adam Smith or David Ricardo are representatives of:	Keynesianism	Monetarism	School of rational expectations	Classical political economy	d
2.	1	When the marginal slope to consume is 0.8, then the marginal slope to save is:	0.2	0.8	-0.2	-0.8	a
3.	1	The expansion from the perspective of the economic cycle means:	boom	recession	bottom	peak	a
4.	1	The function of the total savings in two-sector economy is expressed as:	$S = s*Y$	$S = c*Y$	$S = Y$	$S = -Ca + s*Y$	d



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Basket	Sample test question	Answer (A)	Answer (B)	Answer (C)	Answer (D)	Correct answer	
5.	2	Slumpflation is the situation in the economy when:	price level increases and unemployment declines	production stagnates, while the price level declines	production and unemployment grow	price level rises and production stagnates	d
6.	2	In the case of NAIRU applies that:	the price level grows in the economy	the price level declines in the economy	the price level remains unchanged	prices react to the external shocks	c
7.	2	The change of the AD slope cause in the Keynesian model:	investment	government expenditures	export	rate of income tax	d



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MATHEMATICS AND STATISTICS

Mathematics and statistics are disciplines which are widely applied in areas such as finance, business, management, economics and other fields in the social sciences. Sample test questions (7) for the online entrance test are divided into two baskets. First basket consists of 4 sample test questions from the bachelor mathematics (quantitative methods) topic. Second basket contains 3 questions from the bachelor statistics area. Correct answer could be verified in the last column of the table.

Basket	Sample test question	Answer (A)	Answer (B)	Answer (C)	Answer (D)	Correct answer		
1.	1	A function is defined by the formula $f: y = x^2 - 6x + 8$. Calculate the first derivative in the point 1; i.e. $y'(1) =$		$y'(1) = 2$	$y'(1) = 0$	$y'(1) = -4$	$y'(1) = 1$	c
2.	1	The extreme value of the quadratic function $y = x^2 + 4x$ is attained at $[x^*; y^*]$:		$[-2; 1]$	$[2; 8]$	$[-2; -4]$	$[1; 9]$	c
3.	1	The value of the definite integral $I = \int_0^2 2dx$ is:		$I = 4$	$I = \frac{7}{3}$	$I = 2$	$I = 1$	a



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Basket	Sample test question	Answer (A)	Answer (B)	Answer (C)	Answer (D)	Correct answer
4.	1	Calculate the matrix product $S = \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix} \cdot \begin{pmatrix} 5 & 1 \\ 1 & 3 \end{pmatrix}$				c
5.	2	What is the probability of the following event: in each of three consecutive tosses of a dice the result is always "six"?				a
6.	2	Consider the following statistical sample: 50; 38; 25; 13; 7; 7. Calculate the variation coefficient:				c
7.	2	The sum of 20 items is 6 000 EUR. After removing 2 items with total value of 960 EUR, the arithmetic average of the rest is:				c