Exam questions for applicants to the PhD program 8D04101 – Economy

Level 1

1. Explain the concept of "alternative value" in production, giving an example, and focus on what is the need to determine alternative value in the activities of the enterprise
2. Explain by comparing the concepts of “change in volume of demand” and “change in demand”
3. Define the concept of elasticity of demand, focus on its types
4. Define the concept of production costs of a firm, consider their types
5. Define the price elasticity of demand, and consider how demand differs depending on the price elasticity of demand. Explain the relationship between price elasticity of demand and revenue
6. Define the income elasticity of demand, the characteristics of the product in relation to the income elasticity
7. Focus on the concepts of increase, decrease, sustainable economies of scale and highlight them by example
8. Explain the reasons for the shortage and advantages in the market
9. Focus on market structures and describe them according to the competitive situation
10. In a competitive environment, the firm makes a profit in the short term, and in the long term, explain why it has no economic benefit
11. List and explain barriers to entry and exit from the monopoly market
12. Explain the concept of price discrimination and consider what advantages a firm might gain by applying it
13. Compare and analyze the characteristics of the mature competitive market and monopoly markets
14. Focus on the advantages and disadvantages of the monopoly market, the harm to society
15. Compare the characteristics of monopoly markets, mature competition and monopolistic competition
16. Explain the implications of autonomous decision-making by competing firms in the duopoly market
17. Focus on market failure or market vulnerability and explain the consequences of this situation
18. Define gross domestic product. Describe the characteristics of nominal and actual gross domestic product
19. Name the components that make up aggregate demand. The aggregate demand curve (AD) has a negative tilt, name its causes and explain the mechanisms of its influence
20. Describe the specificity of the economy in the short term according to Keynes’s theory. Formulate a short term aggregate supply model and explain it
21. Describe the specificity of the economy in the long term according to classical theory. Create a long-term aggregate supply model and explain it (compile a description)
22. Explain the state of macroeconomic equilibrium using the AD-AS model

23. Define the business cycle. Explain the reasons for economic cyclicality. Describe the stages of the business cycle
24. Define inflation, consider types of inflation. Focus on the causes and consequences of inflation
25. Define unemployment, consider types of unemployment. Focus on the causes and socio-economic consequences of unemployment
26. Explain the concept of savings in the macro-economy, identify its types. Name the main reasons for household savings
27. Focus on the ratio of consumption to savings, specify their functions. Focus on the factors that influence consumption and savings and explain the consequences of their impact
28. Define the concept of investment in macroeconomics, name the types. List the factors that affect the dynamics and instability of investments, and explain the mechanisms of their impact
29. Focus on the relationship between investment and savings in the commodity market. Explain the balance mechanism in commodity markets
30. Focus on the concepts of demand and supply in the money market. Explain the balance mechanism in the money market
31. According to Keynesian theory, focus on the reasons for holding money in cash. Focus on alternative cash demand costs
32. Define the concept of economic growth, the factors and models of economic growth
33. Open economy. Focus on goals and means of foreign trade. Focus on theoretical conclusions about the implementation of foreign trade
34. Explain the essence of free trade, its support and oppose. Focus on the advantages and disadvantages of protectionism
35. Tell us about the types of exchange rates and the factors that affect them. Focus on the purpose of monetary policy
36. From the definition of science as systems, select the component parts of the science model
37. List the methodological requirements for the results of the research
38. Present the main features of scientific research
39. Show specific requirements for science as a knowledge system
40. Apply the term "methodology" to the levels of scientific knowledge
41. Imagine the stages of the scientific process
42. Imagine the stages of hypothesis construction
43. Describe the functions of knowledge
44. Describe the principle of determinism
45. Present the methodological requirements for conducting scientific research
46. Describe the law of negation
47. Present the law of the transition to quantitative changes to qualitative ones
48. Demonstrate the main steps of system analysis
49. List dialectic categories
50. Imagine the main stages of inter-plant analysis
51. Show the relationship between the main indicators in financial analysis models
52. Describe methods to increase the use of induction and professional experience

53. List the structure assumption of the developed theory
54. Describe the method of forecasting socio-economic phenomena
55. Imagine research technology
56. Describe the advantages of inter-plant comparative analysis
57. Describe eliminations techniques
58. Characterize the advantages of financial analysis
59. Consider groups of indicators in areas of financial analysis
60. Imagine the stages of systems analysis
61. Characterize the relative and average methods
62. Describe the features of an index method in an economy
63. Characterize the mathematical methods of analysis
64. Imagine economic and mathematical modelling as a way to study economic activity
65. Describe the method of mathematical statistics in economic studies
66. Describe statistical tables
67. Imagine a stock management system as a mathematical method of solving economic problems
68. Imagine the stages of system analysis
69. List the constituent parts of the science model
70. List the questions answered by the presence of the concept
71. List the stages of Macroeconomic Analysis
72. Explain the essence of the concepts “market demand” and “market supply”
73. Consider the types of macroeconomic indicators
74. Explain the components of macroeconomic elements in an open economic system
75. List and describe production costs and their types
76. Explain the essence of classical macroeconomic equilibrium
77. Name the price indices in macroeconomics and explain what they are used for
78. Focus on the types of budget and tax policy
79. Explain the activities of the securities market
80. Explain the purpose and tools of the state's monetary policy
81. Name the structure of the banking system
82. Present the methodological requirements for the results of scientific research: fact-checking
83. Present “novelty and originality” as the main feature of scientific research
84. Reveal the general, particular methodology and methodological techniques in relation to the term “methodology”
85. Describe the methodological concept
86. List the objects of socio-economic forecasting
87. List the features of scientific research from the perspective of modern methodology of science
88. Describe the problem of classification of sciences as a problem of the structure of all scientific knowledge
89. Provide proof in the context of scientific research
90. Present an absolute and comparative justification
91. Describe the balance method of research in economics

92. Describe the extrapolation method
93. Indicate the barriers in the monopoly market when entering and exiting the industry, make explanations
94. Make a comparison of the market of perfect competition and the market of monopoly on the main features
95. Indicate the advantages and disadvantages of the monopoly market, reveal its negative impact on society
96. Expand the concept and types of elasticity of demand
97. Describe the main types of macroeconomic indicators
98. Expand the essence of the concept of income elasticity of demand. Specify product properties related to revenue flexibility
99. State the causes of shortages and surpluses in the market. Give examples
100. Formulate the definition of gross domestic product. Highlight the features of nominal and real GDP
101. Expand the concept of “inflation”, consider the types of inflation. State the causes and consequences of inflation
102. Expand the essence of accumulation, its sources and forms. Specify the main reasons for household savings
103. Establish the relationship between investment and savings in the market of goods. Describe the mechanism of formation of equality in commodity markets
104. Expand the essence of the concept of “economic growth” and its factors. Describe models of economic growth
105. Indicate the stages of the scientific research process, open them
106. Describe the main stages of hypothesis building
107. Expand the essence, types and functions of knowledge
108. Expand the essence of system analysis and describe its stages
109. Expand the essence of the method of forecasting socio-economic phenomena
110. Describe the methods of elimination in economic analysis
111. Expand the essence of the method of relative and average values
112. Expand the essence of the method of mathematical statistics in research in the field of economics
113. Describe the tabular method of displaying statistical data. Give examples of statistical tables
114. Describe the main steps in a system analysis
115. Set in the financial analysis models the relationship between the main indicators. Justify the answer

Level 2

1. Draw a power curve and explain what it is used for
2. Focus on the functions of supply and demand. Explain the balance of supply and demand in the market using a graph. Tell the reasons why there is a surplus and deficit in the market
3. Draw the supply and demand curves relative to elasticity. Explain the types of flexibility on the graph. Focus on the practical importance of flexibility

4. Present and explain the mechanism of formation of equilibrium conditions of the consumer and producer
5. Explain the condition for maximum profit of a firm in a competitive market in a mature competitive market using the algebraic and graphical method
6. Indicate the state of a company's production in a mature competitive market using cost curves and marginal earnings
7. Specify the terms of your stay in the industry, despite the firm's losses in a mature competitive market, using the margin curves
8. Specify the state of departure of the firm from the industry in the mature competitive market. Explain your answer with the graph
9. Create and analyze the model of "prisoner's dilemma" for any two firms making independent decisions on the duopolistic market
10. Draw up the characteristics of mature competition, monopoly and oligopoly markets in a schematic form, and make a comparative analysis
11. Focus on the essence, types, and influence of external influences. Consider ways to increase the impact of external positive influences and reduce the impact of negative ones
12. Explain the concept of outflow of income based on the model of "income and expenditure", give them an example
13. Explain the method of calculating gross domestic product by cost, focusing on what costs of economic agents are taken into account in its calculation
14. Explain the method of calculating gross domestic product by income, focusing on what income of economic agents is taken into account in its calculation
15. Focus on price indices in macroeconomics. Explain the meaning of the GDP deflator and explain the calculation method
16. Explain the macroeconomic significance of net domestic product, national income, individual income and disposable income, specify the calculation methods
17. The nature and composition of national savings in the macroeconomy. Consider the calculation of private, public and external savings
18. Macroeconomic shocks. Tell me about the positive and negative shocks to the aggregate supply. Give examples of changes to the AD-AS model, giving examples of shocking factors
19. Explain the cycle stages in the economy using the graph. Analyse the situation in the economy at different stages of the economic cycle
20. Focus on the composition of the labour force. Specify the method of calculating the unemployment rate. Explain the relationship between unemployment and inflation using the Phillips curve
21. Consider the use of "shock therapy" and progressive methods of combating inflation and explain their consequences
22. Show the relationship between tax rate and tax revenue to the government budget through the Laffer curve, analyze by examples
23. Consider the mechanism for the formation of equality in the commodity-money market using the IS-LM model
24. Explain the dependence between the interest rate and the investment in an algebraic and graphical way

25. Write Oyken’s law. Explain the relationship between unemployment and GDP according to Oyken’s law
26. Using the investment and savings function, draw a curve IS and explain the value of the curve IS
27. Draw a curve IS using the Keynes Cross. Explain the factors influencing the bias of the IS curve
28. Objective and instruments of fiscal policy. Describe the characteristics of fiscal stimulus and containment policies in the face of cyclical fluctuations in the economy and outline their possible consequences
29. Monetary policy objectives and instruments. Describe the objectives and features of monetary expansion and monetary restriction and describe their possible consequences
30. Consider the relationship between commodity and money markets using the main equation of quantitative money theory $MV = PY$
31. Consider the prerequisites, factors of the model of economic growth of the representative of the neoclassical school R. Solow
32. Reveal the macroeconomic essence of the country's balance of payments, explain the relationship between its structure and sections
33. Methods for calculating Lerner and Hirschmann-Herfindal indices specify and explain the meanings
34. Draw a conclusion about the impact of the Central Bank on the money supply by changing the Central Bank’s reserve requirements
35. Describe the money supply, the monetary base and the monetary multiplier, and indicate how they are calculated
36. Classify scientific knowledge
37. Classify knowledge by level
38. Classify the concept “Market economic system”
39. Classify research levels
40. Classify hypothesis types
41. Classify types of evidence
42. Classify types of economic analysis
43. Classify statistical observation
44. List the main forms of abstract thinking
45. Classify economic and mathematical methods
46. Define the basis of knowledge
47. Define the basic problems of the logic of science
48. Understand levels of methodological knowledge
49. Mark methods used at the empirical and theoretical levels
50. Mark methods characteristic of empirical study
51. Check the nature of science
52. Define the types of models where the economy aims to describe, explain and anticipate the facts while guiding the actions
53. Define scientific knowledge as the clash of opposing views, the struggle of beliefs, misconceptions, mistakes
54. Discover the essence of “method”

55. Compare the field and model approach
56. Compare structural and functional approaches
57. Compare integrated and systemic approaches
58. Identify design directions for system research
59. List the methods used in system analysis
60. Define truth as social and personal value
61. Check inductive procedures
62. Describe argumentation theory
63. Compare absolute and comparative justification
64. Classify the arguments
65. Check the approaches based on philosophical methods
66. Compare subjective and non-experimental approaches in economic science
67. Mark general cognition methods
68. Characterize inductive and deductive methods
69. Compare internal management and external financial analyses
70. Describe the main functions of economic activity
71. Construct the conditions for the continuation of the firm's production in a mature competitive market using cost and marginal revenue curves.
72. Consider the essence, types, and effects of external influences. Develop ways to reduce the impact of negative influences and increase the impact of external positive influences
73. Explain the essence, application, and calculation methodology of the GDP deflator.
74. Build cycle stages in the economy using a graph. Conduct an analysis of the conditions that occur in the economy at different stages of the economic cycle.
75. Determine the relationship between tax revenues and the tax rate transferred to the state budget using the Laffer Curve, give an example of this and conduct an analysis
76. Using the savings and investment function, draw the IS curve and consider the value of the IS curve.
77. Budget-the purpose and means of tax policy. Focus on the specifics of implementing a stimulating and restraining budget and tax policy in the event of cyclical fluctuations in the economy and determine their possible consequences
78. Focus on the purpose, means and effectiveness of monetary expansion and monetary restriction and describe their possible consequences
79. Explain the essence of the Baumol-Tobin model used in money market analysis
80. Draw conclusions about the impact of the central bank on the money supply by changing the mandatory Reserve rate, the calculation rate.
81. Discover the levels of cognition: sensual and rational
82. Describe the financing and material support of scientific research as effective tools for managing the development of science
83. Identify the factors for identifying best practices that make up the reliability of a scientifically sound base

84. Reveal the methodological principle: a concrete historical approach to the problem under study
85. Compare integrated and systemic approaches Compare groups of methods of scientific research in economics: general and specific
86. Describe the non-positive empirical approach
87. Describe the methods of scientific research in economics
88. Describe the hypothesis after clarification, correction as a law
89. Compare the types of argumentation: empirical and theoretical
90. Compare analysis and synthesis as methods of scientific cognition
91. Describe the practical significance of the concept
92. Explore the concepts of outflow and inflow of income based on the income-expense model. Accompany your answer with examples.
93. Identify the features of the method for calculating the gross domestic product by costs, focusing on what costs of economic agents are taken into account when calculating it
94. Identify the features of the method for calculating the gross domestic product by income, focusing on what incomes of economic agents are taken into account when calculating it
95. Plot the production possibilities curve on a graph and explain the purpose of its use.
96. Draw a graph of the balance between consumer and producer. Make explanations on the mechanism of formation of conditions for market equilibrium.
97. Draw a diagram of a firm exiting an industry in a perfectly competitive market. Explain the answer.
98. Identify the macroeconomic implications of net domestic product, national income, individual income, and disposable income. Describe the methods of their calculation.
99. Consider the methodology for calculating private, public and external savings. Accompany your answer with examples.
100. Consider positive and negative aggregate supply shocks. Show the changes taking place in the AD-AS model using the example of factors that cause macroeconomic shocks.
101. Identify the relationship between interest rate and investment. Perform it by the algebraic method and the graphical method
102. Describe Okun's law. Identify the relationship that exists between unemployment and GDP according to this law.
103. Plot the IS curve using the Keynes cross. Identify Factors Affecting IS Curve Shift
104. Highlight the main types of scientific knowledge in the general structure of knowledge
105. Identify the features of the market business model. Answer with examples
106. Reveal the features of science, define its basic concepts
107. Compare natural and modeling approaches in economic research
108. Compare structural and functional approaches to the study of economics. Accompany your answer with examples.

109. Identify the features of absolute and comparative justification. Accompany your answer with examples.
110. Group common methods of cognition, describe them
111. Identify the main problems of the logic of science and make an analysis of the structure of science
112. Identify levels of methodological knowledge and describe them
113. Discuss the application of research methods at the empirical and theoretical levels. Answer with examples
114. Identify methods specific to empirical research. Answer with examples

Level 3

1. Explain alternative costs using the production opportunity curve and draw conclusions about the favorable state of the economy
2. Generalize the market situation that occurs when the market price deviates from the equilibrium price. Create a market equilibrium model
3. Consider demand law violations. Express your opinion on Giffen products and the Veblen effect
4. Criticize the concept of A. Smith «paradox of water and diamonds».
5. Reveal the essence of the law of diminishing marginal utility (Gossen's Law I). Criticize the possibility that this law will always be respected
6. Limited consumer budget. Explain the condition of maximizing profitability (Gossen II law) and draw conclusions.
7. Although the concept of loss of marginal productivity has not been studied in theory, it has been tested in practice. Please comment on this
8. Draw conclusions about the importance of marginal and average costs in determining the volume of production. Suggest possible ways to reduce production costs
9. Focus on the need to develop competition. Give your opinion on the mechanisms of support and development of competition in Kazakhstan
10. Comment on the need, instruments and effects of State monopoly policy on the monopoly market. Assess the effectiveness of competition policy in Kazakhstan
11. Consider the conclusions made on the degree of market power of the firm based on the Lerner index.
12. Specify the method of calculating Hirschmann-Herfindal indices and explain the values
13. Comment on the basic idea of D. Ricardo's theory of comparative advantage and A. Smith's theory of absolute advantages.
14. Consider the problems in calculating gross domestic product and express critical opinion on them
15. Focus on possible conclusions about inflation based on the GDP deflator
16. Assess the role of investment in increasing gross domestic product
17. From the point of view of «displacement problems» take a critical view of the negative consequences of the state's fiscal policy.

18. In the event of a total supply shock, the State will adopt a stabilization policy. Explain the significance of this policy. Make a timetable. Generalize the effects of the stabilization policy of the State
19. Describe anti-inflationary measures in Kazakhstan and state your opinion on their effectiveness
20. Describe the peculiarities of Kazakhstan's fiscal policy, and state your opinion on its effectiveness
21. Give your opinion on the multiplier effect of fiscal policy on the economy
22. Formation of mandatory reserves of the central bank. Draw conclusions about the impact of the central bank on the money supply by changing the mandatory reserve rate
23. Draw conclusions about the impact of the central bank's attempt to change the settlement rate on the money supply
24. Express your opinion on the central bank's open market operations and their impact on the money market
25. Focus on the specifics of Kazakhstan's foreign trade policy and critically assess its effectiveness
26. The need for free trade. Be critical of the imperfections of free trade
27. Explain the purpose of measures to devalue the national currency, express the critical opinion on its positive and negative aspects
28. Tell us about the peculiarities of Kazakhstan's monetary policy and state your opinion about its effectiveness.
29. Conduct a comparative analysis of the effectiveness of monetary and fiscal policies applied at different exchange rates
30. Methods of bridging the balance-of-payments deficit. Express your opinion on the need for balance-of-payments
31. Assess the role of monetary, fiscal and monetary policies in regulating foreign trade.
32. To express their criticism of the foreign trade policy of the Hecksher-Olin
33. Consider modern theories of foreign trade policy and express your opinion on their advantages and disadvantages
34. The problem of public debt. To criticize the financing of the external debt of the State
35. Consider the factors of economic growth in developed countries.
36. Evaluate the main factors and opportunities for growth of Kazakhstan's economy
37. Develop basic features of scientific research
38. Formulate specific requirements for science as a knowledge system
39. Develop the application of the term "methodology" to levels of scientific knowledge
40. Structure human logical reasoning
41. Design a modern science policy
42. Define the external bases of the theory
43. Articulate the benefits of science methodology
44. Articulate the limitations and benefits of the laws' dialectics

45. Structure the main methodological principles of scientific research
46. Formulate specific policy requirements that researchers must take into account
47. Develop research approaches
48. Define limitations and benefits of systems analysis
49. Design an economic application of comparative analysis
50. Structure conclusions on how to formalize systems representation
51. Develop the stages of the systemic analysis process in the economy on the problem, define the principles of the systemic approach
52. Articulate the need for a science-based information base for economic research
53. Formulate social methods used in statistical research
54. Structure ummary and grouping data
55. Develop stages of economic event modelling
56. Develop main types of models
57. Formulate economic and mathematical research methods
58. Social methods in statistical research
59. Draw conclusions on the summary and grouping of data
60. Draw conclusions on research approaches
61. Draw conclusions on the application of comparative analysis in the economy
62. Structure and identify the relationship between key indicators in financial analysis models
63. Draw conclusions about modern science policy
64. Develop a framework for economic analysis
65. Draw conclusions on ways and means of economic analysis
66. Give examples of mean and relative values.
67. Develop a framework for comparability of data
68. Draw conclusions from factor analysis
69. Define statistics as a means to obtain information
70. Develop statistical tasks in modern conditions
71. Develop key levels of economic processes
72. Draw conclusions about market problems that occur when the price fluctuates in the market from the equilibrium price. Build a market equilibrium model
73. Identify cases of violation of the law of demand. Giffen products and describe the Veblen effect
74. Draw conclusions about the relevance of determining the volume of production of average and marginal costs. Develop possible ways to reduce production costs
75. Determine the methodology for calculating the Hirschmann-Herfindal index and explain the meaning
76. Assess the role of individual consumer spending and investment in increasing gross domestic product
77. Demonstrate anti-inflationary measures in Kazakhstan and give a critical opinion on their effectiveness

78. Explain the factors that affect the dynamics of consumption and accumulation from the point of view of Keynesian and classical theories
79. Draw up a conclusion about the central bank's measure to change the rate that affects the money supply
80. Describe the contribution of the state to the formation of the country's total income.
81. Explain the importance of monetary, fiscal, and monetary policy measures taken to regulate foreign trade.
82. Draw the Mandell-Fleming model used in the analysis of open economics and explain its essence
83. Formulate the parameters of the "output" of the "input" when applying a systematic approach based on marketing research
84. Draw conclusions on the advantages of the methodology of science
85. Draw conclusions on the limitations and advantages of the laws of dialectics
86. Formulate the types of models: descriptive, predicative and normative
87. Draw conclusions from the system analysis
88. Formulate a logical and methodological scheme as the main value of system analysis
89. Formulate concepts such as the external environment and integrity
90. Draw conclusions based on grouping characteristics: qualitative, quantitative, signs of space and a sign of time
91. Draw conclusions on the main tasks of statistics at the present stage
92. Develop the stages of statistical research
93. Draw conclusions based on the method of mass observations
94. Present your opinions on Heckscher-Ohlin's foreign trade policy
95. Present your opinions on modern theories of foreign trade policy, indicating their advantages and disadvantages.
96. Present your judgments about the factors of economic growth in developed countries and evaluate the key factors for the growth of the economy of Kazakhstan
97. Present your judgment of opportunity cost using a production possibilities curve and draw conclusions about the efficient state of the economy
98. Give your opinion on the concept of diminishing marginal productivity, which has been proven in practice, although theoretically it has not been investigated
99. Please provide your opinion on the development of competition and, in particular, on the mechanisms for supporting and developing competition in Kazakhstan
100. Present your critical point of view regarding the problems in measuring GDP and the accuracy of its estimates
101. Formulate possible options for conclusions about inflation based on the GDP deflator
102. Justify the features of the state's fiscal policy and express your opinion on its effectiveness
103. Justify the formation of the required reserves of the National Bank and their impact on the money supply by changing the required reserve ratio

104. Please provide your comments on the National Bank's open market operations and their impact on the money market
105. State your opinions on the foreign trade policy of the state and critically evaluate its effectiveness
106. State your opinions about the features of the development of free trade and express your critical view of its shortcomings
107. Justify the goals of the devaluation of the national currency and state your judgments about the positive and negative sides
108. Present your judgments about the main features of scientific research. Answer with examples
109. Express your opinion on the role and forms of human logical reasoning in scientific economic research
110. Present your judgments about the external foundations of the theory. Answer with examples
111. Rank the main methodological principles of scientific research in terms of their importance. Accompany your answer with examples
112. Present your opinions on research approaches in economics. Answer with examples
113. Present your judgments regarding the application of social methods in statistical research
114. Present your judgments about the main types of models in the economy. Answer with examples
115. Present your judgments regarding the application of factor analysis in scientific research. Answer with examples
116. Present your views on the appropriateness of statistics as a means of obtaining information in the course of economic research. Answer with examples
117.