

3. Entrance test questions

1. Main development stages of economic theory: from mercantilism to supply economic theory. Interpretation of economic theory subject by various schools.
2. Economic development cycle. Short term, long term cycles and business environment long waves. Factors conditioning economic development cycle.
3. Research methods in economic theory. Positive and normative economics. Possibilities and limits of use of maths methods for economic processes analysis. Economical methods of economic research and statistical methods of theoretical hypotheses check.
4. Unemployment in the economy. Employment and unemployment theory. Interconnectio between inflation and unemployment in short term and long term periods.
5. Basic principles and suppositions of economic analysis. Principles of optimization and efficiency. Peuliarities of economic choice and economic decision making in conditions of uncertainty.
6. Monetary policy. Strategies and purposes of monetary policy. Monetary police tools and transmitting mechanism. Monetary policy ecciffency conditions.
7. Types of economic systems, their characteristics and factors limiting long-term development. Structural units of economic system.
8. Peculiarities of production factor markets. Marginal productivity theory and allocation of earnings to production factors. Demand on production factors at competitive market. Supply of production factors on competitive market.
9. Borders of government interference into economy. "Market fiasco" concept. Public choice theory and its suppositions. Social welfare criteria. Social welfare aggregated function and problem of individual preferences agreement.
10. Macro economic consumption models. Household consumer spending factors. Factors influencing household decision making on division of income to consumption and savings. Consumption and savings functions.
11. Macro economic balance models: neo-classic synthesis and "Keynesian cross" . Multiplier effect, accelerator principle and paradox of thrift. Produce market balance conditions model.
12. Inflation in the economy. Inflation measurement methods. Classification of inflation types. Inflation influence on economy state. Anti-inflation policy.
13. Law of supply, law of demand, balance, market, balance price; producer (company) and consumer behavior theories. Production function, production factors, labor power, physical capital.
14. Economic growth: structure of notion and history of views on the problem. Quantitative indicators of economic growth. Growth rates.
15. Investments in macro economy: real, financial, intellectual. Role of investments in economy. Equality of savings and investments as a condition of macro economic balance.
16. General characteristics of government economic policy tools. Taxes. Subsidies. Government expenditures. Administrative methods. Commercial law. Other tools.
17. Elasticity, general definition. Price elasticity of demand and its determining factors. Price elasticity of demand and changes in gross income. Price elasticity on production factors and its practical meaning.
18. Economic regulation by government. Methods and tools of government economic regulations. Mechanisms of government support of production in Russia.
19. Government budget, its deficit and proficit. Fiscal and monetary policy of government. Taxes in the economy. Tax levying and functions; taxation mechanisms.
20. Economic assessment of production ecological effect on the environment.
21. State and main directions of investment policy in country production complexes (fuel and energy, machine-building, metallurgical, chemical, etc.)
22. Notion of a company, classification of companies, their legal forms of organizations. Company development external and internal environment.
23. Company's, industry's, production complex's innovative potential.
24. Ecological and economic optimization of nature protection activities in production companies.
25. International division of labor and economic integration in the industry.
26. Efficiency assessment of nature protection activities.
27. Investments and economic growth. Investment economic essence and types.
28. Efficiency assessment of investment projects.
29. Social and economic efficiency of production.
30. Industrial production concentration: efficiency notion, conditions and factors. Peculiarities of

industrial production concentration in modern world.

31. Forms of specialization, cooperation, and combining in production.

32. Organization of company economic safety.

33. Management structure: classification of management functions, delegating, management style.

34. General management theory. Management of social and economic systems (companies).

35. Management methodological bases. Management functions nature and structure.

36. Strategic and operational management. Management infrastructure.

37. Management functions. Analysis, forecasting and planning, organization and coordination, communication, motivation, control and training.

38. Necessity of anti-crisis management. Anti-crisis management mechanisms.

39. Bankruptcy diagnostic. Forecasting of bankruptcy possibility: models, technology.

40. Notion and role of financial and economic analysis in production systems management (company, corporation, industry, complex). Main economic analysis methods.

41. Company financial state assessment indicators system. Financial and economic analysis models. Production company financial state assessment criteria.

42. Strategic planning technology. Business planning. Situational analysis methodology.

43. Business plan. Sections of business plan, their structure. Financial plan.

44. Theoretical and methodological bases of intercompany planning. Structure, characteristics and peculiarities of various types of intercompany plan.

45. Company competitiveness, its assessment and increase methods. Notion, structure and types of marketing strategies. Modern marketing strategies of Russian companies.

46. Marketing complex. Product, price, communication and sales policy, strategy and tactics, their peculiarities at various life cycle stages of products, services and other exchange objects.

47. Specific nature of commercial goods and services.

48. Management of innovations as a direction in management. Notion of innovation management system. Main tasks of innovation management. Types of innovations.

49. Organization of innovation activities management. Innovation process structure and general model. Production life cycle and its connection with innovation cycle.

50. Labor as a social and economic category. Social and economy relations and their regulation. Social partnership.

51. Society, company, person labor potential. Notion and indicators of labor potential.

52. Demographic basis of labor market formation and functioning. Quantitative and qualitative characteristics of population. Main demographic tendencies in Russia influencing labor market. Labor resources reproduction process.

53. Purposes and tasks of labor resources management. Main functions of labor resources management. Modern principles of labor resources management, their peculiarities compared to general management principles. Labor resources management methods.

54. Remuneration system. Peculiarities of labor remuneration and motivation in various production complexes companies.

55. Notion of labor productivity. Measurement methods and calculation procedure. Factors influencing productivity increase. Types of labor norms and their calculation procedure. Purposes and methods of work time expenditures.

56. Notion and value of production logistics in modern world. Logistic approach to company material flows.

57. Methodology basics of quality management. Product quality management systems. Product quality management system functions.

58. Notion of international integration. Forms of international cooperation and flow of capital in the industry.

59. Government finances system, its structure, structure and organizational principles.

60. Government debt, its notion, management forms and efficiency.

61. Government earnings and expenditures as main form of government finances functioning, their structure and structure.

62. Budget system of Russian Federation, its organizational principles and their realization in modern world.

63. Notion of taxes and their role in reproduction process. Taxes as economic and legal category.

64. Taxation functions and principles, their role in tax system organization.

65. Tax system, its structure, structure and organizational principles.
66. Finances of companies and organizations, their notion, functions and role in the economy. Organizational principles of company's finances.
67. Classification of company earning and expenditures. Structure of expenditures on production and sales (of goods and services). Non-manufacturing costs and their structure. Notion of production costs, their types and indicators. Types and reserves used to decrease production costs.
68. Structure of costs on goods production and sales, classification of costs on various indicators.
69. Company fixed assets: economic notion, structure, formation and increase sources. Planning and norming of fixed assets in the companies, their efficiency.
70. Company current assets, content, structure, formation and increase sources. Planning and norming of current assets in the companies, their efficiency.
71. Economic notion, functions and types of profit. Interconnection between earnings from sales, costs and profit, break-even analysis.
72. Profitability of company, products and production funds. Profitability indicators, value and calculation methods.
73. Notion of security market. Characteristics and development peculiarities of main security market segments. Development of security market in Russian and abroad.
74. Professional participants of security markets. Types of professional activities on security markets.
75. Objects and subjects of insurance relations. Role of the government as a regulator of insurance activity. Direct and indirect participants of insurance relations: agent, insurance broker, insurance unions, etc.
76. Classification of insurance operations. Classification mechanism. Systematization and grouping of interrelated notions in insurance. General basics and principles of classification by insured objects. Types and direction of insurance operations.
77. Forms of insurance. Compulsory insurance and its types. Optional insurance, General conditions, procedure and rules of insurance operations.
78. Money in the system of economic relations. Characteristics of money as economic category. Functional approach to notion of money. Modification of money functions in modern world.
79. Notion of monetary system. Theoretical basics of monetary system functioning.
80. Monetary system of Russian Federation: structure and functioning principles.
81. Inflation and money turnover law. Factors determining inflation process in modern world. Main methods of anti-inflation policy.
82. Balance of payments as world economic category: notion and basic articles. Factors influencing balance of payments and methods of its regulation.
83. Government credit system. Government credit system structure. Types of credit system. Role of credit system in national economics.
84. Notion of bank system and its elements. Role and types of bank systems.
85. Bank infrastructure and its peculiarities in modern economics. Actual state and development problems of Russian bank system.
86. Monetary regulation and monetary policy: theoretical and practical aspects.
87. Bank own capital: notion, structure, formation sources, functions. Bank deposit operations. Interbank credits.
88. Notion and types of bank services. Role of bank services in bank earnings formation.
89. Competence and its role in market economy.
90. Notion, purposes and principles of accounting. Financial and management registering.
91. Normative regulating system and accounting reforming program in Russia based on ISFR.
92. General requirements to company non-current assets register.
93. Register of material and production stocks (materials, goods, ready products).
94. Register of monetary means, financial investments and accounts receivable.
95. Procedure of reflection of company's own capital and liabilities in liabilities of the balance.
96. Peculiarities of register of costs on remuneration.
97. Register of costs of production and calculation of production costs in financial and management register system.
98. Classification of company's costs and their reflection in accounting balance.
99. Company earnings and expenditures register.
100. Procedure of formation and reflection of company activities financial results in the register and

reports.

101. Accounting and tax reporting: general conditions and differences, reflection of tax and duties calculation in accounting and reporting.
102. Company's accounting reports: normative requirements to formation and preparation.
103. Notion of economic analysis as an independent knowledge area, its basic purpose, tasks, subject, methods and basic principles.
104. Analysis of balance and financial statement report.
105. Company financial state forecasting.
106. Notion, purpose and tasks of auditing activity. Interconnection of audit and economic analysis.
107. Normative regulation of auditing activity in Russian Federation, Russian and international auditing standards.
108. Audit stages. Planning of auditing and auditor's documentation. Auditor's summary.
109. International differentiation of labor: notion, types, trends. Positioning of countries in international differentiation of labor.
110. Forms of international business in modern world. Transnational corporation as leading organizational form of international economic cooperation.
111. Indicators of international comparison of country development: GNP, GNI, national wealth, HDI, Index of economic freedom.
112. International trade theories. Reasoning of international trade existence. Absolute advantage theory of A. Smit. Comparative advantage theory of L. Rikkardo. Heckscher-Ohlin theory.
113. Government trade policy. Protectionism and free trade policy: historic and current reasons for their choice. Means and methods of external trade regulation. Tariff and non-tariff barriers. Public efficiency of external trade restricting policy.
114. Types and forms of international economic integration. International trade and international financial organizations. Functions of international organizations. Reasons of joining and non-joining of different countries to international organizations.
115. Global problems of humanity. Ecology. Poverty. Demography. Role of international community in solution of global problems.
116. Regional international organizations. Their role in stimulation of intercountry cooperation.
117. External economic relations of production companies in the conditions of business liberalization and globalization.
118. Basics of international trade. Influence of technology development, product life cycle on external trade structure. Traditional and non-traditional limits of international trade development. Assessment of post effects of external trade exchange.
119. International currency relations and its organization. Main characters and development peculiarities of modern currency system. Currency risks, their classification.
120. Notion of currency system and currency relations. Elements of national and world currency system.
121. Scientific principles of production processes organization. Activity on organization of production processes, peculiarities of their organization at company focus on market requirements.
122. Production organization form as a characteristic of production and timing structure of production process.
123. Peculiarities of production processes organization at various types of production.
124. Organization of production process on the company. Company infrastructure.
125. Designation and content of auxiliary and servicing divisions on the company, basics of their organization.
126. Timing of production processes. Production cycle doctrine, cycle structure, calculation and its length analysis.
127. Equipment layout and organization of rational material flows.
128. Optimization of the equipment and assignment of the list of details to a particular equipment. Organization of multi-shift operation.
129. Notion and characteristics of flow production. Characteristics of main requirements to production organizations in the conditions of information technologies and automation of production.
130. Main tasks of infrastructural divisions, their cooperation with main production.
131. Organization of instrumentation of main production workshops. Planning of needs in tools and instruments. Organization of operation of instrument workshops, other divisions and instrumentation.
132. Tasks and structure of repair workshop, organization of equipment repair and maintenance. Modern

repair organization systems.

133. Tasks and structure of company's transportation facilities. Organization of loads transfer and loading and unloading.
134. Structure and organization of warehouse. System of storage, issuance and register of material resources.
135. Ensuring of optimal equipment load. Development and execution of uninterruptable operation of the equipment.
136. Development of material flows movement on the production. Ensuring of interconnection between similar material flows passing through company's production divisions.
137. Organizational reserves, their identification and use. Lean production concept.
138. Use of functional and costs analysis and controlling in company's production complex analysis and improvement.
139. Functional analysis elements. Metric, linear and normative spaces. Euclid space. Gilbert space. Linear operators and functionals in linear normed spaces.
140. Optimization methods for solving of economic tasks. Classic identification of optimization task. Function optimization. Functional optimization. General task identification.
141. Multi-criteria optimization. Reduction methods of multi-criteria task to one-criterion task. Concession method. Methods identifying preference level. Search methods for Pareto set of alternatives.
142. Smooth optimization. Saddle point. Kuhn-Tucker condition. Dual optimization tasks.
143. Linear programming task. General task identification. Methods for solving linear programming. Duality in linear programming. Tasks of integer programming. Parametric linear programming.
144. Consumption sphere simulation. Consumer preferences. Indifference curves. MRS. Utility function and its properties. Budget limitation. Consumer balance. Consumer reaction to change of prices and earnings. Classification of welfare. Demand elasticity on prices and consumer income.
145. Production processes simulation. Production factors. Neo classic production function and its properties. Ultimate and average products of production factors. Producer balance.
146. Production costs simulation. Cost function and its properties. Connection between average and ultimate costs. Elasticity of costs by production. Costs function for homogeneous production function.
147. Company behavior models under competition. Company behavior model under perfect competition conditions. Research of the model depending on production function homogeneity identifier. Company behavior model under imperfect competition conditions. Monopoly and monopsony. Competition among a few. Oligopoly. Model of duopoly.
148. General economic balance model by Walras. Model specification. Development and solving of model set of equations. Excessive demand function. Walras law. Equilibrium price system. Walras balance optimality by Pareto. Social welfare function.
149. General economic balance model in a long-term period. INP factors and its presentation using production function of macro economic analysis. Allocation of INP by production factors. Consumption function. Investment function. General economic balance model structural form. Interest equilibrium and rate.
150. One-sector model of economic dynamics by Solow. Supply of goods and production function. Consumption function and national accounts equation. Stable level of capital-labor ratio. Stationary trajectory. Level of capital-labor ratio and golden rule. Stable level of capital-labor ration at population growth. Stable level of capital-labor ration at production development.
151. Markov random processes. Notion of a system and set of its states. Notion of a random process. Markov discreet random process. Condition graph. Realization of a random process. Markov network. Transitional probabilities. Conditions probabilities. Flow of events. Poisson flow of events. Process of death and multiplication.
152. Formation process of security profile optimal structure. Probability characteristics of securities profitability. Probability characteristics of securities profile. Markowitz model. Dependency "risk – profitability" for risk profile. Tobin model. Dependency "risk – profitability" for combined profile.
153. Methods of risk situations mathematical simulation. Risk and uncertainty in economic activity. Place of mathematical simulation methods in general risk management scheme. Main risk management mechanisms – direct influence on risk factors and diversification. Risk management mechanisms simulation purposes. Simulation methods for uncertainty and risk of economic activity.