Examination questions for the course Logistics II degree

1. What creates the value of a product?
2. What is the difference between product management and project management?
3. What are the main methods for evaluating the economic effectiveness of a new product launch?
4. What are the elements of a marketing strategy in the process of launching a new product?
5. List the participants in the warehouse processes.
6. List and characterize the basic documents of warehouse turnover and inventory records.
7. Describe the types of inventory in the warehouse.
8. Explain the concept and types of cross-docking.
9. Discuss the essence of the Hub and Spoke system.
10. Explain the concept and present the characteristics of a 3PL and 4PL operator.
11. Explain the concept of sharing economy and give examples of its use in city logistics service.
12. Define the concept of reverse logistics and discuss the concept of circular economy.
13. Outline the characteristics of reverse logistics.
14. Make a comparison of return, recovery, and waste flows.
15. Present a classification of the costs of reverse logistics.
16. Present a classification of the intellectual capital of an organization.
17. Discuss Nonaki and Takeuchi's spiral model of knowledge conversion.
18. Present the concept of the pyramid of knowledge.
19. Provide a definition of European logistics and global logistics.
20. Introduce the concept of Eurologistics and characterize the functions of Eurologistics.
21. Discuss 4 selected determinants of Eurologistics.
22. Provide a definition, types, and examples of Eurologistic channels.
23. Present the concept of lean management.
24. Discuss the concepts of muda, mura, and muri.
25. Discuss 7 basic types of waste according to the lean concept.
26. Discuss tools used in the lean concept: SMED, Kanban, JIT, 5S method, Spaghetti diagram, TQM, TPM, Poka Yoke, visual management.
27. Present elements of a decision-making model.
28. Present the structure of the decision-making process.
29. List techniques of decision making under uncertainty; discuss one selected method.
30. List of risk identification methods; discuss one selected method.
31. List and discuss the key fields in the process mining technique for event log conversion.
32. List and discuss selected basic documents found in ERP systems in the process of purchase and sales execution.
33. Indicate the differences between regression and classification in machine learning methods. List the ML algorithms.
34. Characterize the input and output elements in machine learning processes using a selected example.
35. Define Geographic Information System.
36. Discuss the architecture of geographic information systems.

37. Present the application of geographic information systems in business.
38. What is network analysis and where does it apply?
39. List and describe basic elements in mathematical optimization models.
40. Define the concept and objectives of optimization and list areas of application of optimization in a manufacturing company.
41. Define, present the assumptions, and characterize linear programming and dynamic programming.
42. Discuss the essence of open and closed transportation problems, and present an algorithm for solving transportation problems.
43. Define the concept of customer value and present a classification of types of customer value.
44. Discuss the essence, assumptions, and construction of the Strategic Scorecard.
45. Define and present the essence of a strategy map, characterize the stages of its creation.
46. List and characterize selected measures of enterprise value management.
47. Describe the levels of planning according to APICS.
48. Present objectives in material flow planning.
49. Explain the concept of logistics metrics in material flow planning and give examples of metrics.
50. Present the essence of needs planning in a distribution network, and give examples of IT solutions that support needs planning in a distribution network.