

EXAM QUESTIONS-basis of ICT -2023/2024

1. Computer modeling of economic processes.
2. Operations on matrices and vectors in MS Excel.
3. Operations on one-dimensional arrays in MS Excel
4. Operations on two-dimensional arrays in MS Excel.
5. Scalar product of vectors in MS Excel. Finding the inverse matrix
6. Determinant of a matrix in MS Excel. Transposed matrix. Product of matrix.
7. Methods of technological solution of the system of linear equations
8. Technological solution of the system of linear equations by the method of inverse matrix method
9. Technological solution of the system of linear equations by the method of least squares
10. Technological solution of functions investigated in economic issues.
11. Demand and supply functions and the technological solution of finding the equilibrium point.
12. The essence of the network model of the market. Technological solution of the network model of the market in MS Excel
13. Inter-field balance Leontiev model. Technological solution in MS Excel
14. Matrix composed of total cost factors. Cumulative product vector - X_i
Technological solution
15. Computer technology of linear programming in economics
16. The main purpose of linear programming and its implementation in Excel
17. Using the "Solution Search" superstructure in Excel to solve optimization problems
18. Technological solution of the transport issue
19. Economic-mathematical model of the transport issue
20. Logic functions and their applications
21. AND, OR logic functions and explanation with an example
22. Simple IF, AND functions and explanation with an example
23. Complex IF, AND logical functions and explanation with an example.
24. Solving financial issues in Excel

25. Technological solutions for calculating simple and compound interest rates. International methods (German, English, French practices)
26. Application of PV, NPER functions in MS Excel
27. Application of PMT, RATE functions in MS Excel
28. Application of FVCHEDULE, PPMT functions in MS Excel
29. Statistical functions and their applications in MS Excel
30. Intermediate Statistical Functions in MS Excel
31. Basic statistical functions in MS Excel
32. Technological calculation of max, min, median, mode statistical functions in MS Excel
33. Application of Average, Average if, Standard Deviation functions in MS Excel
34. Application of Variance, Quartiles functions in MS Excel
35. Descriptive Statistics in MS Excel. Analysis ToolPak in MS Excel
36. Correlation analysis and its technological solution in MS Excel
37. Regression analysis and its technological solution in Excel
38. Regression graph in Excel
39. Construction of linear regression equations through trend line superstructure in MS Excel
40. Forecast value of dependent variable in MS Excel
41. Basic distributions of random variables. Technological solution in MS Excel.
42. Basic distributions of discrete random variables. Technological solution in MS Excel
43. Binomial Distribution in MS Excel
44. Poisson Distribution in MS Excel
45. Normal distribution. Realization of normal distribution in MS Excel
46. Depreciation charges and implementation in MS Excel
47. Straight line depreciation in MS Excel
48. Declining balance depreciation in MS Excel
49. Double declining balance method in MS Excel
50. Sum of years depreciation in MS Excel

+ 10 TYPE OF EXERCISES