A systematic approach to decision making is complex because today's business and environment in which it is functioning are for more complex than in the past. For large business a single wrong decision very painful but may also have ramifications in national economy. The objective of this paper is to discuss the various quantitative techniques and methods used in managerial decisio ns. Quantitative techniques are very powerful medium through which we solve uncertainty in decision making and enhance projectability and efficiency in the business. Therefore, these quantitative techniques evaluate planning factors and when these arise then provide meaningful solution to particular business problem.Figures (1)Role of quantitative techniques in business NTERNATIONAL JOURNAL OF RESEARCH SCIENCE & MANAGEMENT Business Statistics by D.R.Agarwal, VRINDA PUBLICATIONS (P) Ltd.Business Statistics by G.C.Beri, Tata McGraw Hill Publishing Company Ltd.Business Statistics by S.P.Gupta, Sultan Chand & Sons Educational Publishers, New Delhi.Statistics for Business and Economics by R.P.Hooda, MACMILLAN India Ltd.Quantitative Techniques by C.R. Kothari, Vikas publishing house Pvt. Ltd.Operations Research by S.D.Sharma, KEDAR NATH RAM NATH MEERUT DE Download MBA Quantitative Techniques Notes pdf. Students can Download MBA 1st Sem Quantitative Techniques Study Materials & Books through the following post. Here we Provide Study Materials for the Students who are Searching for MBA study materials notes on quantitative techniques. 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February 2005.Allan & Blumon, Elementary Statistics: A Step by Step Approach. McGraw-Hill College, June 2003.James T. McClave Terry Sincich, William Mendenhall, Statistics, Prentice Hall February 2005Mark L. Berenson, David M. Revine, Timeothy C. Krehbiel, Basic Business Statistics: Concepts & Applications, Prentice Hall, May 2005.MBA Quantitative Techniques Syllabus in Detailed StructureThe MBA Quantitative Techniques Notes syllabus has given in the following Units.I UnitUnit Lessons: Quantitative Techniques, Measures of Central Tendency, Mathematical Model, Linear Programming: Graphical Method, Linear Programming: Simplex MethodUnit Content: QT – Introduction – Measures of Central Tendency – Mean, Median, Mode. Mathematical Models – deterministic and probabilistic – simple business examples – OR and optimization models – Linear Programming – formulation – graphical solution –simplex – solution.II Unit Unit Lessons: Transportation Model, Assignment ModelUnit Content: Transportation model – Initial Basic Feasible solutions – optimum solution for non – degeneracy and degeneracy model – Transshipment Model – Assignment Model – Travelling Salesmen problem.III UnitUnit Lessons: Network Model, Waiting Model (Queuing Theory)Unit Content: Network Model – networking – CPM – critical path – Time estimates – critical path – crashing, Resource leveling, Resources planning. Waiting Line Model – Structure of model – M/M/1 for the infinite population.IV UnitUnit Lessons: Probability, Theoretical Probablity Distributions, Probability Distribution of a Random Variable.Unit Content: Probability – defintions – addition and multiplication Rules (only statements) – simple business application problems – a probability distribution – expected value concept – theoretical probability distributions – Binomial, Poison and Normal – Simple problems applied to business.V UnitUnit Lessons: Inventory Model, Game Theory, SimulationUnit Content: Inventory Models – Deterministic – EOQ – EOQ with Price Breaks – Probabilistic Inventory Models- Probabilistic EOQ model – Game theory-zero sum games: Arithmetic and Graphical Method. Simulation – types of simulation – Monte Carlo simulation – simulation problems. Decision Theory – Pay off tables – decision criteria – decision trees.MBA Quantitative Techniques for Management Sample QuestionsWhat is simulation? Give a few areas of its application.With the help of a flow chart, briefly explain the simulation process.What are the advantages and limitations of simulation?What is the Monte Carlo simulation?Explain the procedure of simulation using random numbers. Explain how simulation is useful in solving queuing and inventory problems.What are the properties of the Two-person Zero-sum game?Define Pure strategy and Mixed strategy.What is meant by the saddle point? What is meant by a Fair Game?Explain how games can be solved using the dominance propertyOnline MBA Quantitative Techniques Books at Amazon.inWe've provided MBA Quantitative Techniques Notes pdf. Students can Download Quantitative Techniques And Methods Notes, PDF, Books, Syllabus for B COM, BBA 2025. We provide complete quantitative techniques and methods pdf. 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Sampling design and techniques, Scaling techniques: meaning and types, sampling distribution, Data processing operations: editing, coding, classification, tabulation. Partial Correlation: zero-order, first order, second order Multiple Correlation, coefficient of Multiple correlation. Multiple Regression and Correlation Analysis: Least square regression plane, linear Multiple regression analysis, Coefficient of Multiple Determination. Hypothesis Testing: Statistical significance, the logic of hypothesis testing, statistical testing procedure, p-values. Test of significance: Types of tests, z-test, t-test, chi-square test, ANOVA. Factor Analysis, Cluster Analysis and Conjoint Analysis You may be aware of the fact that prior to the industrial revolution individual business was small and production was carried out on a very small scale mainly to cater to the local needs. The management of such business enterprises was very different from the present management of large scale business. The information needed by the decision-maker (usually the owner) to make effective decisions was much less extensive than at present. Thus, he used to make decisions based upon his past experience and intuition only. Some of the quantitative techniques and methods questions and answers are mentioned below. You can download the QnA in quantitative techniques and methods pdf form. Briefly explain an overview of quantitative techniques. What factors in modern society contribute to the increasing importance of quantitative approach to management? 2. Describe the major phases of statistics. Formulate a business problem and analyse it by applying these phases. Also explain the various statistical methods. Explain the distinction between: Static and dynamic models. Analytical and simulation models. Descriptive and prescriptive models. Describe the main features of the quantitative approach to management. What is the need of using quantitative approach to managerial decisions? What are the various models frequently used in operations research and the basis of their classification? Explain the areas of applications of quantitative approach in business and management. What do you mean by research? What is the importance of research? Write down the features of a good research study. If you have already studied the quantitative techniques and methods notes, then it's time to move ahead and go through previous year quantitative techniques and methods question paper. It will help you to understand question paper pattern and type of quantitative techniques and methods question and answer asked in B.COM, BBA 3rd year quantitative techniques and methods exam. You can download the syllabus in quantitative techniques and methods pdf form. Below is the list of quantitative techniques and methods book recommended by the top university in India. Arthur, Maurice, Philosophy of Scientific Investigation, Baltimore: John Hopkins University Press, 1943. Bernal, J.D., The Social Function of Science, London: George Routledge and Sons, 1939. Chase, Stuart, The Proper Study of Mankind: An Inquiry into the Science of Human Relations, New York, Harper and Row Publishers, 1958. S. N. Murthy and U. Bhojanna, Business Research Methods, Excel Books, 2007. In the above article, a student can download quantitative techniques and methods notes for B.COM, BBA 3rd year and quantitative techniques and methods notes for B.COM, BBA 6th semester. Quantitative Techniques And Methods study material includes quantitative techniques and methods notes, quantitative techniques and methods books, quantitative techniques and methods syllabus, quantitative techniques and methods question paper, quantitative techniques and methods case study, quantitative techniques and methods questions and answers, quantitative techniques and methods courses in quantitative techniques and methods pdf form. 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Their functions are to facilitate decision making, enable scientific research, select strategies, reduce costs, allocate resources efficiently, and minimize time. 3. Quantitative techniques provide solutions to business problems, help select appropriate strategies, aid for scientific analysis, reduce costs and wait times, properly allocate limited resources, aid inventory management, and support complex decision making processes. They are useful for production management, human resources, marketing, and finance. By Study Hub Zone / June 26, 2025 Post navigation

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