SET	TYPE	MARKS	QUESTION	CO	PI	Bloom's Level	Accessible For	ANSWER-ONE	ANSWER-ONE-STATUS	ANSWER-TWO	ANSWER-TWO-STATUS	ANSWER-THREE	ANSWER-THREE-STATUS	ANSWER-FOUR	ANSWER-FOUR-STATUS
A	SINGLE-CORRECT	0.5	What is the purpose of Sensitivity Analysis in MS Excel?	CO1		Understand	My Institute	To analyze the impact of changing input values on a formula	Correct	To analyze the impact of different scenarios on a set of input values	Incorrect	To perform optimization problems	Incorrect	To create pivot tables	Incorrect
A	SINGLE-CORRECT	0.5	Which chart type is best suited for displaying the trends of stock prices over time?	CO1		Understand	My Institute	Donut chart	Incorrect	Column Chart	Incorrect	Line chart	Correct	Pie chart	Incorrect
A	SINGLE-CORRECT	0.5	Which statistical measure is used to indicate the degree of variation or volatility in the price of a stock?	CO1		Understand	My Institute	Standard Deviation	Correct	Mean	Incorrect	Mode	Incorrect	Median	Incorrect
A	SINGLE-CORRECT	0.5	Which function is used to calculate the coefficient of determination (R-squared) in MS Excel?	CO1		Understand	My Institute	CORREL	Incorrect	RSQ	Correct	COVAR	Incorrect	STDEV	Incorrect
A	SINGLE-CORRECT	0.5	Which chart type is best suited for displaying trend line analysis in MS Excel?	CO1		Understand	My Institute	Column chart	Incorrect	Pie chart	Incorrect	Funnel Chart	Incorrect	Scatter Chart	Correct
A	SINGLE-CORRECT	0.5	Which statistical measure is used to determine the strength of the relationship between two variables in trend line analysis?	CO1		Understand	My Institute	Correlation coefficient	Correct	Standard deviation	Incorrect	Mean	Incorrect	Median	Incorrect
A	SINGLE-CORRECT	0.5	Which statistical measure is used to determine whether a trend line is a good fit for the data in MS Excel?	CO1		Understand	My Institute	Standard deviation	Incorrect	R-squared	Correct	Mean	Incorrect	Median	Incorrect
A	SINGLE-CORRECT	0.5	Which function is used to add a trend line to a chart in MS Excel?	CO1		Understand	My Institute	Add trendline	Correct	Add line	Incorrect	Add regression	Incorrect	Add forcast	Incorrect
A	SINGLE-CORRECT	0.5	Which type of mean is commonly used for calculating averages of income or sales data?	CO1		Understand	My Institute	Arithmetic Mean	Correct	Geometric Mean	Incorrect	Harmonic Mean	Incorrect	Median	Incorrect
A	SINGLE-CORRECT	0.5	Which function is used to calculate the arithmetic mean in MS Excel?	CO1		Understand	My Institute	Mean	Incorrect	Average	Correct	harmean	Incorrect	Mode	Incorrect
A	SINGLE-CORRECT	0.5	Which function is used to calculate the geometric mean in MS Excel?	CO1		Understand	My Institute	AVERAGE	Incorrect	GEOMEAN	Correct	GMEAN	Incorrect	GEOM	Incorrect
A	SINGLE-CORRECT	0.5	Which type of mean is commonly used for calculating the average of ratios or fractions?	CO1		Understand	My Institute	Arithmetic Mean	Incorrect	Geometric Mean	Incorrect	Harmonic Mean	Correct	Mode	Incorrect
A	SINGLE-CORRECT	0.5	In business, what does the slope coefficient in linear regression analysis represent?	CO1		Understand	My Institute	The rate of change in the dependent variable for a unit change in the independent variable	Correct	The point where the line intersects the y-axis	Incorrect	The correlation between the independent and dependent variables	Incorrect	The standard error of the regression	Incorrect
A	SINGLE-CORRECT	0.5	In business, what does the intercept in linear regression analysis represent?	CO1		Understand	My Institute	The point where the line intersects the y-axis	Correct	The rate of change in the dependent variable for a unit change in the independent variable	Incorrect	The correlation between the independent and dependent variables	Incorrect	The standard error of the regression	Incorrect
A	SINGLE-CORRECT	0.5	In a linear regression analysis, a slope coefficient of 0.5 means that	CO1		Understand	My Institute	For every unit increase in the independent variable, the dependent variable decreases by 0.5 units	Incorrect	There is no relationship between the independent and dependent variables	Incorrect	For every unit increase in the independent variable, the dependent variable	Correct	The line is horizontal	Incorrect

SET	TYPE	MARKS	QUESTION	CO	PI	Bloom's Level	Accessible For	ANSWER-ONE	ANSWER-ONE-STATUS	ANSWER-TWO	ANSWER-TWO-STATUS	ANSWER-THREE	ANSWER-THREE-STATUS	ANSWER-FOUR	ANSWER-FOUR-STATUS
A	SINGLE-CORRECT	0.5	In a linear regression analysis, an intercept of 10 means that:	CO1		Understand	My Institute	The line intersects the x-axis at 10	Incorrect	The slope of the line is 10	Incorrect	There is no relationship between the independent and	Incorrect	The line intersects the y-axis at 10	Correct
A	SINGLE-CORRECT	0.5	Which term represents the degree of fit between the observed data and the regression line in linear regression analysis?	CO1		Understand	My Institute	Intercept	Incorrect	R-squared	Correct	Slope coefficient	Incorrect	Residual	Incorrect
A	SINGLE-CORRECT	0.5	In business, what does a high correlation coefficient in linear regression analysis indicate?	CO1		Understand	My Institute	No relationship between the independent and dependent variables	Incorrect	A negative relationship between the independent and dependent variables	Incorrect	A strong relationship between the independent and dependent variables	Correct	A weak relationship between the independent and dependent variables	Incorrect
A	SINGLE-CORRECT	0.5	How does Excel Solver find the optimal solution to an optimization problem?	CO1		Understand	My Institute	By using a brute-force algorithm to test all possible solutions	Incorrect	By using a heuristic algorithm to find a good solution quickly	Incorrect	By using a linear programming algorithm to solve the problem mathematically	Correct	By using a machine learning algorithm to learn the optimal solution from past data	Incorrect
A	SINGLE-CORRECT	0.5	What is the difference between a Solver variable and a normal Excel variable?	CO1		Understand	My Institute	There is no difference, they are the same thing	Incorrect	A Solver variable is a variable that can be optimized by Solver, while a normal Excel variable cannot	Correct	A Solver variable is a variable that is used in the objective function, while a normal Excel variable is not	Incorrect	A Solver variable is a variable that is used in a constraint, while a normal Excel variable is not	Incorrect
A	SINGLE-CORRECT	0.5	What is the primary objective of linear programming?	CO2		Apply	My Institute	Maximize profit	Correct	Minimize waste	Incorrect	Maximize revenue	Incorrect	None of these	Incorrect
A	SINGLE-CORRECT	0.5	What is the purpose of using Excel Solver in linear programming?	CO2		Apply	My Institute	To optimize a linear program	Correct	To create a linear program	Incorrect	To solve a quadratic program	Incorrect	To graph a linear program	Incorrect
A	SINGLE-CORRECT	0.5	Which of the following is not a component of a linear program?	CO2		Apply	My Institute	Objective function	Incorrect	Constraints	Incorrect	Nonlinear terms	Correct	Decision variables	Incorrect
A	SINGLE-CORRECT	0.5	In Excel Solver, what is the difference between the "GRG Nonlinear" and "Simplex LP" solving methods?	CO2		Apply	My Institute	There is no difference - they solve linear programs the same way	Incorrect	"GRG Nonlinear" is used for nonlinear programs, while "Simplex LP" is used for linear programs	Correct	"Simplex LP" is faster than "GRG Nonlinear"	Incorrect	"GRG Nonlinear" is a more accurate solving method	Incorrect
A	SINGLE-CORRECT	0.5	What does it mean if the Solver Status in Excel Solver is "Infeasible"?	CO2		Apply	My Institute	The program has no feasible solution	Correct	The program has multiple feasible solutions	Incorrect	The program has a unique feasible solution	Incorrect	The program has been solved correctly	Incorrect
A	SINGLE-CORRECT	0.5	What is a linear programming product mix problem?	CO2		Apply	My Institute	A problem where we must decide how many products to produce to maximize profit	Correct	A problem where we must determine the optimal mix of raw materials to use in production	Incorrect	A problem where we must decide which suppliers to use to minimize costs	Incorrect	A problem where we must determine the optimal distribution of products to customers Answer	Incorrect
A	SINGLE-CORRECT	0.5	In a product mix problem, what is the objective function?	CO2		Apply	My Institute	The cost of raw materials	Incorrect	The cost of production	Incorrect	The revenue generated from selling the products	Incorrect	The profit generated from selling the products	Correct
A	SINGLE-CORRECT	0.5	In a transportation problem, what is the objective function?	CO2		Apply	My Institute	The cost of shipping goods from one location to another	Correct	The distance between locations	Incorrect	The weight of the goods being transported	Incorrect	The time it takes to transport the goods	Incorrect

SET	TYPE	MARKS	QUESTION	CO	PI	Bloom's Level	Accessible For	ANSWER-ONE	ANSWER-ONE-STATUS	ANSWER-TWO	ANSWER-TWO-STATUS	ANSWER-THREE	ANSWER-THREE-STATUS	ANSWER-FOUR	ANSWER-FOUR-STATUS
A	SINGLE-CORRECT	0.5	What is a constraint in linear programming?	CO2		Apply	My Institute	A condition that must be satisfied in order to optimize the objective function	Correct	A function that must be optimized in order to achieve a given result	Incorrect	A variable that must be fixed at a certain value in order to optimize the objective function	Incorrect	An input that is not used in the optimization process	Incorrect
A	SINGLE-CORRECT	0.5	What is a decision variable in linear programming?	CO2		Apply	My Institute	A variable that is fixed at a certain value in order to optimize the objective function	Incorrect	A variable that represents an input to the optimization process	Correct	A variable that represents the output of the optimization process	Incorrect	A variable that is not used in the optimization process	Incorrect
A	SINGLE-CORRECT	0.5	What is the difference between a feasible and an infeasible solution in linear programming?	CO2		Apply	My Institute	A feasible solution is one that satisfies all of the constraints, while an infeasible solution does not	Correct	A feasible solution is one that maximizes the objective function, while an infeasible solution does not	Incorrect	A feasible solution is one that is optimal, while an infeasible solution is not	Incorrect	A feasible solution is one that is easy to implement, while an infeasible solution is difficult to implement	Incorrect
A	SINGLE-CORRECT	0.5	What is the difference between a binding and a non-binding constraint in linear programming?	CO2		Apply	My Institute	A binding constraint is one that is satisfied with equality, while a non-binding constraint is satisfied with inequality	Correct	A binding constraint is one that is not satisfied, while a non-binding constraint is satisfied	Incorrect	A binding constraint is one that limits the objective function, while a non-binding constraint does not	Incorrect	A binding constraint is one that is satisfied with inequality, while a non-binding constraint is satisfied with equality	Incorrect
A	SINGLE-CORRECT	0.5	In a transportation problem, what does the supply constraint represent?	CO2		Apply	My Institute	The minimum amount of goods that must be transported to the destination location	Incorrect	The amount of goods that can be transported from the source location	Incorrect	The amount of goods that must be transported to the destination location	Incorrect	The maximum amount of goods that can be transported from the source location	Correct
A	SINGLE-CORRECT	0.5	What is Excel Solver?	CO2		Apply	My Institute	A built-in tool in Microsoft Excel for solving optimization problems	Correct	A tool for editing and formatting data in Microsoft Excel	Incorrect	A tool for importing and exporting data between Microsoft Excel and other software	Incorrect	A tool for creating charts and graphs in Microsoft Excel	Incorrect
A	SINGLE-CORRECT	0.5	What types of optimization problems can Excel Solver solve?	CO2		Apply	My Institute	Linear programming problems	Incorrect	Nonlinear programming problems	Incorrect	Integer programming problems	Incorrect	All of the above	Correct
A	SINGLE-CORRECT	0.5	Which of the following is NOT a component of a typical optimization problem solved by Excel Solver?	CO2		Apply	My Institute	Objective function	Incorrect	Decision variables	Incorrect	Constraints	Incorrect	Data validation	Correct
A	SINGLE-CORRECT	0.5	What is the purpose of What-If Analysis in MS Excel?	CO2		Apply	My Institute	To calculate the total cost of a project	Incorrect	To perform mathematical calculations	Incorrect	To explore different scenarios and their impact on the	Correct	To create graphs and charts	Incorrect
A	SINGLE-CORRECT	0.5	Which of the following is NOT a tool for What-If Analysis in MS Excel?	CO2		Apply	My Institute	Goal Seek	Incorrect	Scenario Manager	Incorrect	Data Validation	Correct	Solver	Incorrect
A	SINGLE-CORRECT	0.5	What is the purpose of Goal Seek in MS Excel?	CO2		Apply	My Institute	To find the optimal solution to a linear programming problem	Incorrect	To calculate the average of a range of numbers	Incorrect	To determine the value of a cell based on a desired result	Correct	To sort a range of data in ascending or descending order	Incorrect
A	SINGLE-CORRECT	0.5	What is the purpose of Scenario Manager in MS Excel?	CO2		Apply	My Institute	To analyze the impact of changing input values on a formula	Incorrect	To analyze the impact of different scenarios on a set of input values	Correct	To perform optimization problems	Incorrect	To analyze the impact of changing the formatting of a range of cells	Incorrect