FIT3158 Busines	ss decision modelling - \$2 2022	
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<u>Dustinouru</u> / Wy uni	100 / ITTO TOOL SE LOZZ / MODESSITEMEN / QUIZ WEEKS	
Started on	Friday, 12 August 2022, 12:50 PM	
State	Finished	
	Friday, 12 August 2022, 1:05 PM	
Time taken		
Grade	0.90 out of 1.00 (90 %)	
What i	is the significance of an absolute cell reference in Excel?	
○ a.	It is the only formula used to refer to a cell on another spreadsheet	
b.	The cell reference will not change if the formula containing the reference is copied to another location	~
O c.	The cell will always contain the absolute value of any number that is entered into it	
Od. The cell ref	ference changes if the formula containing the reference is copied to another location	
The correct answer	r is: The cell reference will not change if the formula containing the reference is copied to another location	
The se	ensitivity analysis provides information about which of the following:	
	impact of a change to an objective function coefficient.	
	impact of a change in a resource level.	
III. The	e impact of adding simple upper or lower bounds on a decision variable.	
○ a.	I and III only	
○ b. II and III on	ıly	
oc. I only.		
od. I, II and III		~
The correct answer	r is: I II and III	
The correct andwer		
The al	lowable increase for a constraint is	
○ a.	how many more units of resource to purchase to maximize profits.	
b.	the amount by which the constraint coefficient can increase without changing the final optimal value.	×

 $\, \bigcirc \,$ c. $\,$ the amount by which the resource can increase and the shadow price applies.

 \bigcirc d. how much of the resource to use to get the optimal solution.

The correct answer is, the amount by which the resource can increase and the shadow price applies.	
A change in the right hand side of a constraint changes a. objective function coefficients b. the slope of the objective function c. the feasible region d. other right hand sides	~
The correct answer is: the feasible region	
When a solution is degenerate the reduced costs for the changing cells (variable cells) a. may be set to any value the manager needs. b. is always equal to zero. c. is equal to infinity. d. may not be unique.	~
The correct answer is: may not be unique.	
If the allowable increase for a constraint is 100 and we add 110 units of the resource what happens to the objective function value? a. increase by 100 b. increase by 110 c. decrease by100 d. increases but by unknown amount	~
The correct answer is: increases but by unknown amount	
The coefficients in an LP model (c_j, a_{ij}, b_j) are representing a. random constants. b. numeric constants. c. numeric variables. d. random variables.	~

The correct answer is: numeric constants

When the allowable increase or allowable decrease for the objective function coefficient of one or more variables is zero it indicates (in the absence of degeneracy) that		
a. the problem is infeasible.		
 b. there is only one optimal solution. 		
◎ c. alternate optimal solutions exist.		
Od. no optimal solutions can be found.		
The correct answer is: alternate optimal solutions exist.		
Which of the following statements is false concerning either of the Allowable Increase and Allowable Decrease columns in the Sensitivity Report?		
 a. The values provide a means to recognize when alternate optimal solutions exist. 		
b. The values equate the decision variable profit to the cost of resources expended.		
c. The values give the range over which an objective function coefficient can change without changing the optimal solution.		
Od. The values give the range over which a shadow price is accurate.		
The correct answer is: The values equate the decision variable profit to the cost of resources expended.		
When a manager considers the effect of changes to an LP model's coefficients he/she is performing		
a. sensitivity analysis.		
O b. coefficient analysis.		
○ c. qualitative analysis.		
Od. random analysis.		
The correct answer is: sensitivity analysis.		
■ Quiz Week 2		
Jump to \$		
Quiz Week 4 ►		

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