

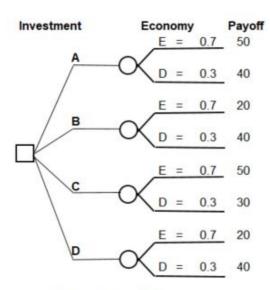
FIT3158 Business decision modelling - S2 2022

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	Started on	Friday, 23 September 2022, 10:21 AM	
	State	Finished	
Co	mpleted on	Friday, 23 September 2022, 10:34 AM	
	Time taken	13 mins 24 secs	
	Grade	0.70 out of 1.00 (70 %)	
Print frien	dly format		
Question 1			
Correct			
Mark 0.10	out of 0.10		
Every n weakne		stic method has a weakness for decision making. Which of the following is incorrect regarding a method and its	
○ a.	The maxim	in method ignores potentially large payoffs.	
O b.	The maxim	ax method ignores potentially large losses.	
○ c.	The minima	ax regret method can lead to inconsistent decisions.	
d.	All the state	ements are correct.	~
The co	rrect answer	is: All the statements are correct.	
Question 2	2		
Correct			
Mark 0.10	out of 0.10		
Decisio	n analysis s	upports all but one of the following goals. Which goal is not supported?	
a.	Help ensur	e selection of good outcomes.	~
O b.	Analyse de	cision problems logically.	
○ c.	Incorporate	e problem uncertainty.	
○ d.	Help make	good decisions.	

The correct answer is: Help ensure selection of good outcomes.

Question $\bf 3$

An investor is considering 4 investments, A, B, C, D. The payoff from each investment is a function of the economic climate over the next 2 years. The economy can expand or decline. The following decision tree has been developed for the problem. The investor has estimated the probability of a declining economy at 30% and an expanding economy at 70%. What is the expected monetary value for the investor's problem?



E = Expanding Economy

D = Declining Economy

- a. 53
- b. 36
- c. 47
- Od. 42

The correct answer is: 47

Question 4
Incorrect

Mark 0.00 out of 0.15

An investor is considering 4 investments, A, B, C and leaving his money in the bank. The payoff from each investment is a function of the economic climate over the next 2 years. The economy can expand or decline. The following payoff matrix has been developed for the decision problem. The investor has estimated the probability of a declining economy at 40% and an expanding economy at 60%. What decision should be made according to the expected monetary value decision rule?

	Payoff Matrix		
Probability	0.4	0.6	
	Economy		
Investment	Decline	Expand	
A	20	90	
В	30	80	
С	-10	100	
Bank	40	50	

a. B

×

0 b. A
○ c. Bank
○ d. C
The correct answer is: A
a :: E
Question 5 Correct
Mark 0.10 out of 0.10
The decision rule which determines the maximum payoff for each alternative and then selects the alternative associated with the largest
payoff is the
a. minimin decision rule.
b. minimax regret decision rule.
© c. maximax decision rule.
d. maximin decision rule.
U. Maximin decision rule.
The correct answer is: maximax decision rule.
Question 6
Correct
Mark 0.10 out of 0.10
A square node in a decision tree is called anode.
a. random
O b. chance
○ c. event
d. decision
The correct answer is: decision
Question 7
Correct Mark 0.10 out of 0.10
Mark 6.10 Oct 61 0.10

Which of the following is a goal of decision analysis?

- a. Avoiding decisions leading to bad outcomes.
- $\, \bigcirc \,$ b. Reduce the role of luck in a decision.
- $\, \bigcirc \,$ c. $\,$ Ensure decisions lead to good outcomes.
- od. Help individuals make good decisions.

The correct answer is: Help individuals make good decisions.

Question 8	
Correct	
Mark 0.10 out of 0.10	
The in a decision problem represent factors that are important to the decision maker.	
	~
○ b. payoffs	
o. states of nature	
○ d. alternatives	
The correct answer is: criteria	
Question 9	
Correct	
Mark 0.10 out of 0.10	
Thecorrespond to future events that are not under the control of the decision maker.	
a. criteria	
○ b. alternatives	
	~
○ d. payoffs	
The correct answer is: states of nature	
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