PA: Social choice = decisions involving more than one decision maker. E.g. voting

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Q: What are Utils?

Preview from Notesale.co.uk Preview page 9 of 111 Utils are pured.

A: Utils are number we use to reflect our preferences over outcomes

A: a is the degree of optimism, where

1 = maximal optimism.

- Q: Explain the following 3

 printe ples.

 i) Printe place in aximising expected
- i) Principle of maximising expected monetary value
- ii) Principle of maximising expected value
 - iii) Principle of maximising expected utility

St Petersburg Paradoxis Where a fair dice is tosspde epeated antil tail appears. You win \$2ⁿ, where n is no. of tosses that are not tails when you play.

How much would you pay to play this game? Here the paradox lies wherein that the expected value of the game is infinity but in reality people maximise expected utility and would pay about \$4. Q: What are the 4 Von Neumann-Morgernstern axioms?

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A! If it is false that x>y and false that y>z, then it is false that x>z.

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Preview from 62 of 111 , max the sum of total utility. believe equality should be taken into account in the decision making process.

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Q: What is a SWF – Social Welfare Function? Give an example.

Apsociation is any decision rule aggregating a set of individual preference orderings. E.g. Majority rule

Q. Drawase decision matrix for BoS.

i) strict: payeguillorium action is strict if each player's action is better than all her other possible actions ii) best response of player i = set o player i's best actions

Applies anoth

dominates another action if the first action is at least as good as the second action, no matter what the players do.

A:

Perfect information: Sequentially played game when each player knows all previous moves made by other players when making a decision. E.g. Chess

Imperfect information: while making a move, a player may not know at which branch of the game tree she is. E.g. matching pennies

Q: Wellatrisothe difference between

Q: What isothe difference between a strategic game with ordinal preferences and a strategic game with VnM preferences?

A: Which preferences mean we can

A: While preferences mean we can assign probabilities p and q to the deterministic outcomes.