

# Survey Questions: Defeasible Reasoning

## **Question 1. Prototypical vs presumptive reasoning (hypothetical)**

- (i) Birds typically fly
- (ii) Birds usually have wings
- (iii) Robins are birds
- (iv) Penguins are birds
- (v) Penguins typically do not fly
- (vi) Magic penguins are penguins
- (vii) Magic penguins typically fly

- 1a. Do robins typically have wings?
- 1b. Do magic penguins have wings?

## **Question 2. Left Logical Equivalence (concrete)**

- (i) Mangoes are sweet fruit
- (ii) Mangoes are typically sold in summer

- 2a. Can you conclude that sweet fruits are sold in summer?

## **Question 3. Cautious Monotony (concrete)**

- (i) Students typically complain about too much homework
- (ii) Students typically attend class

- 3a. Can you conclude that students who complain about too much homework attend class?

## **Question 4. Or (concrete)**

- (i) When it is rainy, it is typically cold outside
- (ii) Anne drinks hot chocolate when it is typically cold outside.

- 4a. Can you conclude that when it is rainy or when Anne drinks hot chocolate, it is cold outside?

## **Question 5. Transitivity (concrete)**

- (i) Kyle is a linguist
- (ii) Linguists typically speak more than three languages

- 5a. Can you conclude that Kyle speaks more than three languages?

## **Question 6. Right Weakening (concrete)**

- (i) No police dogs are vicious
- (ii) Highly trained dogs are typically police dogs

- 6a. Can you conclude that some highly trained dogs are vicious?

**Question 7. And (concrete)**

- (i) Chenin blanc wines typically have a floral aroma
- (ii) Chenin blanc wines typically come from the Loire Valley

7a. Can you conclude that some chenin blanc wines have a floral aroma and come from the Loire Valley?

**Question 8. Rational Monotony (concrete)**

- (i) Athletes are typically healthy people
- (ii) It is false that athletes do not play sport

8a. Can you conclude that athletes who play sport are healthy people?

**Question 9. Contraposition (concrete)**

- (i) Mammals are typically land-dwelling animals

9a. Can you conclude that animals who do not dwell on land are not mammals?

**Question 10. Left Logical Equivalence (abstract)**

Consider the following statements:

- i. A is equivalent to B
- ii. A typically means C

10a. Can you conclude that B means C?

**Question 11. Right Weakening (abstract)**

Consider the following statements:

- i. A implies B
- ii. C typically means A

11a. Can you conclude that C means B?

**Question 12. Cautious Monotony (abstract)**

Consider the following statements:

- i. A typically means B
- ii. A typically means C

12a. Can you conclude that A and B mean C?

**Question 13. And (abstract)**

Consider the following statements:

- i. A typically means B
- ii. A typically means C

13a. Can you conclude that A means B and C?

**Question 14. Or (abstract)**

Consider the following statements:

- i.A typically means C
- ii.B typically means C

14a. Can you conclude that A or B means C?

**Question 15. Rational Monotony (abstract)**

Consider the following statements:

- i.A typically means C
- ii.It is not true that A typically means not B

15a. Can you conclude that A and B mean C?

**Question 16. Transitivity (abstract)**

Consider the following statements:

- i.A typically means B
- ii.B typically means C

16a. Can you conclude that A typically means C?

**Question 17. Contraposition (abstract)**

Consider the following statement:

- i.A typically means B

17a. Can you conclude that not B typically means not A?

# Feedback Questions

A. Which age range describes you best?

18-21

22-30

31-40

41-50

51-60

> 60

B. What is your relationship with the survey? You may select multiple options.

researcher

student

general interest

earn money

other

C. Is the survey relevant to you, your interests and/or your work?

Yes | No. Provide a reason for your answer.

D. Are the survey instructions clear and easy to follow?

Yes | No. If you answered no, provide a reason for your answer.

E. Consider only questions 1-9 in the survey. Do you feel that those questions reflect possible situations which you as a reasoner may experience?

Yes | No. If you answered 'No', please identify those questions which, in your opinion, do not reflect situations that most reasoners would experience.

F. Consider only questions 10-17 in the survey. Do you feel that those questions are understandable?

Yes | No. If you answered 'No', please identify those questions which, in your opinion, are not understandable and indicate which aspects of those questions are not understandable.

G. Lastly, provide any thoughts or concerns you wish to add.