Psyco 381 Spring 2010 Midterm 1 Sample Questions

Below are some sample questions for Midterm 1. Answers are at the bottom.

1. According to Descartes, what is the difference between human and non-human animal behaviours?

A. Humans can perform voluntary behaviours; non-human animals can perform only involuntary behaviours.

B. Humans respond to environmental stimuli; non-human animals only behave reflexively.

C. Human reflexes are voluntary; non-human animal reflexes are involuntary.

D. Human behaviour is explainable by natural laws; non-human animal behaviour in unpredictable.

2. Which of the following is the INCORRECT statement about reflexive behaviours?

A. Most reflexes promote the well-being of the organism.

B. Simple reflexes are not influenced by higher nervous system functions.

C. Reflexes are the simplest form of elicited behaviour.

D. The organization of the nervous system determines the specificity of the stimulus/response relationship.

3. A hungry rat is exposed to a red light, followed by brief access to food. After several such trials the rat approaches the light bulb when it is illuminated. In this example, what is the light?

A. An unconditional stimulus.

B. A conditional stimulus.

C. An unconditional response.

D. A conditional response.

4. Which of the following is a function of preexposure to the CS or the US?

A. Having little effect on later associative learning.

B. Facilitating later associative learning.

C. Retarding later associative learning.

D. CS-preexposure facilitates later associative learning; US preexposure retards later associative learning.

5. All of the following are true of British Empiricists except

A. they believed that ideas were based on associations of simple sensory events.

B. they conducted experiments to test the rules of association.

C. they held that the mind was a blank slate at birth.

D. they thought that sense experiences were the basis of knowledge.

6. Which of the following describes the difference between a general search and a focal search?A. General searches occur when an animal does not yet know specifically where to look for food,

while focal searches are spatially localized.

B. General searches are localized, while focal searches focus on a larger area.

C. General searches are appetitive while focal searches are consummatory.

D. There are no differences; both terms are alternative ways of describing appetitive (i.e., food-related) behaviour.

7. A rat is trained to press a lever for a small amount of food. While pressing the lever at a steady rate, the rat is presented with a tone-light stimulus that had been previously paired with foot-shock. When the tone-light stimulus is on, the rat decreases its rate of lever pressing. What is this decrease an example of?

A. Conditioned suppression.

B. Sign tracking.

C. Conditioned repression.

D. Unconditioned fear responding.

8. Belongingness effects have been demonstrated to reflect which of the following?

A. Extensive experience with the stimuli.

B. Sensitization effects of CS preexposure.

C. Sensitization effects of US preexposure.

D. Genetic predispositions.

9. The research of Ivan Pavlov and Herman Ebbinghaus is similar because both researchers

A. were using empirical methods to investigate reflexes.

B. were using empirical methods to study laws of association.

C. extended Descartes' concept of dualism.

D. were concerned with the study of the mind, not with physiological mechanisms.

10. Elicited behaviours are interesting to researchers studying learning because of which of the following results?

A. They are invariant and make good controls.

B. They are present in most animals except humans, and provide clues to the evolution of behaviours.

C. They do not occur in the same way each time the eliciting stimulus is presented.

D. They allow for voluntary behaviour to be studied in non-human animals.

11. The greatest amount of fear is indicated by a suppression ratio of _____.

- A. < 0.0
- B. 0.0

C. 0.5

D. 1.0

12. Higher-order conditioning demonstrates which of the following?

- A. After training, a CS can function as a US.
- B. After training, a US can function as a CS.
- C. After training, a CS cannot function as a US.
- D. After training, a US cannot function as a CS.

13. What can behavioural studies of learning demonstrate?

- A. How the elements of the nervous system change due to associative learning.
- B. The features of the reflex arc necessary for learning to occur.
- C. The conditions under which information is acquired.
- D. All of the above.

14. A bright light causes a startle response. The second presentation of the light elicits less of a response because the subject was temporarily blinded by the first light flash. This is an example of

- A. habituation.
- B. sensitization.
- C. response fatigue.
- D. sensory adaptation.

15. In order for food to be presented in an autoshaping procedure, the pigeon must do which of the following?

- A. Approach the food hopper before the food is delivered.
- B. Approach the signal light before the food is delivered.
- C. Avoid the signal light until after the food is delivered.
- D. There are no requirements for the pigeon.

16. The compensatory-response model challenges the stimulus substitution model because it suggests which of the following?

A. The CR and UR are unrelated.

- B. The CR and UR can be opposing in form.
- C. The CR and UR can be the same form and the same strength.
- D. The CR and UR can be the same form, but not the same strength.

17. Behaviour changes due to learning

- A. can be short lived must be due to interaction with the environment.
- B. must be enduring and due to changes of stimulus conditions.
- C. must be enduring but must not depend on interaction with the environment.
- D. must be enduring and due to interaction with the environment.

18. The dual-process theory assumes which of the following?

A. One neural process is responsible for increases and decreases in responsiveness to stimulation.

B. Different types of neural mechanisms are responsible for increases and decreases in responsiveness to stimulation.

- C. Habituation and sensitization effects are essentially the same.
- D. Habituation is due to fatigue; sensitization is due to learning.

19. A buzzer sounds every time food is made available for a pigeon. The buzzer starts when food is in the hopper, and stops when food is removed. The food is available for 3 minutes. What is this an example of?

- A. Short-delay conditioning.
- B. Long-delay conditioning.
- C. Simultaneous conditioning.
- D. Backward conditioning.

20. According to the behaviour systems model, which of the following is true regarding the form of the CR?

- A. It will be similar to that of the UR.
- B. It will oppose the form of the UR.
- C. It will be mediated by the intertrital interval.
- D. It will be mediated by the interstimulus interval.

21. Which of the following would correctly be identified as due to learning?

- A. A weight lifter can raise less and less weight as her sets go on.
- B. After a growth spurt, a child can now climb on the couch.

C. In the spring, male birds are attracted to females, but not in the fall when the females are not receptive.

D. None of the above.

22. According to the dual-process theory, when rats were tested with a relatively quiet

background noise, what should their response to a startling tone do?

- A. Sensitize because both the state and S-R systems were activated.
- B. Sensitize because the state system was responding to the background tone.
- C. Habituate because the state system was already responding to auditory stimuli.
- D. Habituate because only the S-R system was activated.

23. Instances in which exposure to the US is sufficient to create CR-like responses to the CS are called

- A. Pseudo-conditioning.
- B. Habituation.
- C. Pseudo-habituation.
- D. Pavlovian conditioning.

24. How might a researcher determine whether conditioned responding is due to S-S or S-R learning?

- A. Change the value of the CS.
- B. Change the value of the US.
- C. Run test trials with a novel CS.
- D. Run test trials with a novel US.

25. What does the general-process approach to learning assume?

- A. That all animals respond to training in a similar manner.
- B. That learning phenomena are products of elemental processes that change across situations.

C. That learning phenomena are products of elemental processes that are consistent across situations.

D. That differing species will learn about similar stimuli and responses similarly.

- 26. Sensitization in the Aplysia occurs due to
- A. engagement of the facilitory interneuron.
- B. changes in the sensitivity of the motor neuron.
- C. changes in the sensitivity of the sensory neuron.
- D. Changes in the action potential of the sensory neuron.

27. Conditioned excitation is to conditioned inhibition as

- A. pseudo-conditioning is to control group.
- B. long-delayed conditioning is to short-delayed conditioning.
- C. sensitization is to habituation.
- D. random-control procedure is to explicitly unpaired control procedure.

28. Using the Rescorla-Wagner model, predict ΔV of stimulus B during conditioning trials with compound stimulus A-B when the associative value of A at the beginning of the trial is λ and the associative value of B at the beginning of the trial is 0.

- A. 0
- Β. 1/4 λ
- C. 1/2 λ
- D. λ

29. Where will the generation of new, previously unknown facts about behaviour come from?

- A. Studying live organisms
- B. Advanced computer modeling.
- C. Studying live humans.
- D. Studying live non-humans.

30. According to the opponent process theory of habituation, what will an emotion-arousing stimulus elicit?

A. emotion after-effects directly.

- B. the a process directly.
- C. the b process directly
- D. the a and b processes directly.

31. Normally, you eat breakfast every morning at Sam's Diner. For the past three mornings a large yellow banner has stated that Sam's is closed. Now, every time you see a yellow banner you turn away from the banner. What is your conditioning an example of?

A. Short-delayed conditioning.

- B. Differential inhibition.
- C. A negative CS-US contiguity.
- D. Conditioned inhibition.

32. According to the Rescorla-Wagner model, inhibition is which of the following?

- A. Unpredictable with the model.
- B. Unrelated to excitation.
- C. The opposite of excitation.
- D. The same as excitation.

33. Evidence for inhibitory conditioning in a summation test comes from which of the following?

A. An increased suppression ratio when the CS+ and CS- are presented together.

- B. A decreased suppression ratio when the CS+ and CS- are presented together.
- C. No change in the suppression ratio when the CS+ and CS- are presented together.

D. None of the above are sufficient without a control group.

34. Which of the following correctly states the importance of time in conditioning procedures?

A. The duration of the CS-US interval determines conditioned responding.

B. The duration of the intertrial interval determines conditioned responding.

C. The relative durations of the intertrial interval and the CS-US interval determine conditioned responding.

D. The relative duration of the interstimulus interval determines conditioned responding.

ANSWERS

- 1. A
- 2. B
- 3. B
- 4. C 5. B
- 6. A
- 7. A 8. D
- 9. B
- 10. C
- 11. B
- 12. A
- 13. C 14. D
- 15. D
- 16. B
- 17. D
- 18. B
- 19. C
- 20. D 21. D
- 22. D 23. A
- 24. B 25. C
- 26. A
- 27. C
- 28. A
- 29. A
- 30. B
- 31. D
- 32. C
- 33. D
- 34. C