PSYCHOLOGY 268 - Fall 2000 FINAL EXAM



No Name Pleas	se Alt code for I	Posting:	Enter 4-digit II	# 0457	(last 4 of Stude	ent ID#)
1. (total 30 points) Please answer part a, and then <u>ANY TWO</u> of the remaining parts. The percent time data apply to all versions of the question. Consider the following data collected on <u>percent time</u> spent on activities by two people:						
	Anna Mar Home	Anna August August Home		AndrewAndre August Home	w August Cのだし Camp	xt
Reading TV Exercise Music Sewing	25 20 20 0 45 10 15	25 15 20 20 35 0 5	Exercise Read Cooking Computer Car work	10 5 15 20 40 15 20	40 3 ⁵ 25 5 30 0 5	
a. (10 points) Give one example for each person of a contingency arrangement between two activities that would yield a reinforcement effect. Your example should should satisfy Premack's time-based account of reinforcer value and also meet the response deprivation criterion for an effective contingency. Your examples should identify the activities, the contingency relation, and the exact scheduled values to be used. You should specify which of the four hierarchies of value you are using. You should also describe what you expect to be the result of each contingency. If Andrew in August at Camp dolorar work for 5, then she can extercise for 35. In both controgracies, here t Andrew must do more of the less prefer a dolorar work of the following four questions (10 points each). Your answers to all of these questions should be prefer the response deprivation criterion for an effective contingency.						
reinforcement examples dem IF AW YLUG - H AW	value of a single onstrate the release of the contract of the	e activity is rela ativity of reinfor Urch oth	thome exercise	shoolute or fixed SFOY 5	functional role. Then S Then Xed - fu Lucy by Lucy by Lucy by Lucy by	Explain how your

c. Give two contingencies using the <u>same activity as a reward</u> that demonstrate that the reinforcement value of that activity is <u>idiosyncratic</u> (unique to each person's hierarchy of value). Explain how your answer accomplishes the demonstration. This can be done <u>either</u> by having two identical contingencies, only one of which would be effective, <u>or</u> by having two effective contingencies that must have different schedule values to be effective.

d. Give two contingencies that demonstrate that the reinforcement value of a single activity is specific to its time. Be sure to describe which kind of example you are giving and explain why your example is a demonstration. This can be done either by having two identical contingencies, only one of which would be effective, or by having two effective contingencies that must have different schedule values to be effective.

If Ama in March at home sews for 15, then she can read for 20.

If Ana in August at home sews for 5, then she can read for 15.

In both contingencies that activity is the less preferred but at dissolvent times, the reinforcer is reading preferred but at dissolvent dissolvent distortion. Atthough the contingencies have displaint schedule values. I used Ana contingencies have displaint schedule values. I used Ana because she is appealable to time differences (Ardrew is both in August.)

e. Give two contingencies that demonstrate that the reinforcement value of a/single activity is specific to its context. Be sure to describe which kind of example you are giving and explain why your example is a demonstration. This can be done either by having two identical contingencies, only one of which would be effective, or by having two effective contingencies that must have different schedule values to be effective.

If Andrew in August at home does carwork for 20, then he can exercise for 35.

In both contingencies the same activity is used for the less preferred but at different contexts (places).

The reinforcer is exercising blow the more preferred activity in both instances, although the preferred activity in both instances, although the contingencies have diff. Schedule values this makes contingencies have diff. Schedule values this makes it effective. I used Andrew bloke is specific to context.

2. (20 points) Suppose you were asked to implement a motivational program in a third grade class. It is a regular school that meets six hours a day, including the following activities: arithmetic problems, reading and discussing stories, exploring geography, internet searching, handwriting, recess, and fine arts time. Based on your understanding of the study of the fast food restaurant, how would you proceed to improve the quality of the students' work by using access to activities as a motivator? Your answer should include the assessment of the relative values of activities, the establishment of contingencies (be sure to give a specific example), and a simple design for evaluating the project. Finally, describe the costs and benefits of the program for the teachers and make a recommendation about whether or not it should be implemented.

not it should be implemented. I would first start out by administering a survey for the 3rd graders to mark by number, 1-being the most preferred 1-to 7-being the less preferred activity. Then I would put the children arithmetic problems into groups according to the order of. activities & have a set time of 30 minutes of 30 minutes of each session they hate & 5 min. of those they like. reading stotles goog Eaphy For example: If one group hates internet, internet. they must do it for 30, then they get 5 minutes of recessions the most) handwriting veless fine arts. Throughout the le nour day, eventually all the children have done the less preferred activities to get the more preferred. #1-4 is less preferred on survey 5-7 is more preferred.) The costs of doing this would be that they must 1st do the less prepared activity & more of it to get the more The benefits would be that they are getting to do some of the more preferred activity (reinforcer), but at the same time they are learning are of the activities (and doing all of them throughout the day) preferred one.

all of them throughout the day.)
If think this should be implemented to see if it works,
I think this should be implemented to the less preferred
I bet it would blow-children will do the less preferred
activities to get the more preferred one. - over time the
activities to get the more preferred one. - over time the
teacher could monitor results a adjust the time
accordingly (to task + learning)

Please answer ANY TWO of the following THREE questions (3, 4, and 5), worth 15 points each:

3. (15 points) Suppose you were working at a fitness center with two sets of aerobic exercisers, helping them acquire basic skills in getting a decent aerobic workout. With group A you gave them set sequences of 4 movements and durations, occasionally changing the order and gradually increasing the duration. At all points you showed them exactly how to move and counted out the sequences, often leading them by loudly counting the movements over a public address system. With group B you demonstrated to them a couple of times the same set of 4 movements that when repeated would result in elevated heart and respiration rates. After that first day you encouraged them to do those exercises in whatever sequences they liked, and you suggested that they pay attention to changes in their own pulse and breathing rates. Two months later both groups were able to do all 4 exercises acceptably, and you asked them to do two things. First they were asked to create a new routine that would yield 15 minutes of elevated heart and respiration rates.— Second they were asked to learn a set routine that was to be taped for a local TV commercial for the fitness center. A Describe how each group would do on each new task and justify your answer based on the effects of their different learning histories.

Group A: instruction d'unitation group.-increase duration. Evoup Be fontingency shaped group.-elevated hr. with learning a set voutine because 40 well tearning history, from behove. + we've also shown ~movements b do the correctly. Aquisition of a new routine do adaptation to a new routine would be slower and elevated heart rates wild 15 minutes would vote-even though they were not focusing on breathing rate-even though they were told to pay attention to it. well on a new routine that yelds of elevated he vate ble their recognized it at the beginning -- from learning history. The learning of the routine would also be faster bic they shaped themselves 4. (15 points) Generate your own example of classical conditioning using the neutral stimuli of the printed words dig

and <u>speed</u> along with the eliciting relation (like a reflex) between a puff of air in the eye and an eyeblink (blowing air in the eye results in a clear blink). Your example should include all of the following components: a description of a conditioning procedure that would produce <u>different</u> reactions to the two stimuli, a description of a procedure (a trial) that tests for the direct effects of successful conditioning, a description of a procedure that would test for physically mediated generalization, a description of a procedure that would test for semantically mediated generalization, and the likely results of of the three test procedures for an intact adult human.

you could use the card (printed word) dig to elicit a public in the eye resulting in an eyeblink. The word speed would not get of public in the eye causing an eyeblink. This should create successful conditioning (dig-> publo of air -> blink / speed -> no response.)

Then you must make a test trial where no public of air is administered. When shown the word dig, the subject should blink a when shown the word lig, the subject should blink a when shown the word

(Direct Effects)

6. 20 points) Suppose it is your task to find a way to decrease the frequency of people walking across a set of railroad tracks in an area that has no marked crossing zone with warning devices. There is real risk of injury because there are multiple tracks that are used frequently for moving cars. You have been asked to set up a punishment program to eliminate this problem before someone is hurt. What context for crossing outside of the marked safe zone would you identify first as part of your plan? What punishing consequence would you use? What characteristics would you include in your punishment system to maximize the likelihood that it would be effective? What additional element would you need to include to make the plan maximally effective? Be sure that your answer is specific to this context.

crossing outside of marked safe zone shortcut for people d it is a nearby crossing zone. walk to consequence would be to eliminate unmarked crossing zone railroad fr. It people did do this, railroad designed to create a mild shock is people closed in unacked zones. So, everytime, someone did not obey the railroad crossing "law" the a shock. Also, receive (which may not be very obten) ticketed with a very big fine. additional element would be to reward people when they did walk in disignated every time, crossing zones. At first reward every time, over time slowly remove rewarding everytime blc people would get used to walking to the Crossing zone. As maintenance then, reinforce everyonce in awhile. Also, there could be a mandatoup "law" that requires more crossing. Zones for people to cross-(1 every 2 blocks)

learn the movements before, so learning new movements would be parter + learner. The learning history for Evoup B influenced their ability to learn a new routine quicker.

To show physically mediated results would be to show a word wig for dig & show the word weed for speed. Since humans do not react well to physical characteristies, there should be no blinking when shown either word (wig & weed.) To test for semantifcally mediated results would be to show a word hole for aig and show a word car for speed. Humans react well to things that show meaning so there should be no response for show meaning so there should be no response for the subject should blink when seen the word cartle subject should blink when seen the word speed.