PSYCHOLOGY 268 - Fall 2000 FINAL EXAM

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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		AndrewAndrew	
		August Home		August Home	August Camp
Reading	25	25	Exercise	10	40
TV	20	20	Read	15	25
Exercise	0	20	Cooking	20	5
Music	45	35	Computer	40	30
Sewing	10	0	Car work	15	0

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 <u>and</u> 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.

Anna March Home: Say for Anna to be able to do 40 music she has to do S excercising. I expect Anna do more excercising to be able to get to do her 4pmusic. Your depriving her music to get excercising.

Andrew August Home: Tell Andrew that to do 30 Comparter Le meeds to do Excress

I expect Andrew to do 20 excercion to be able to 5.4 his 30

Computer time. I'm depriving him of the computer to get him

to excercise mores

Answer <u>ANY TWO</u> of the following four questions (10 points each). Your answers to all of these questions should specify for each contingency the time/context of the hierarchies used, both activities, the contingency relation, and the exact amounts of the schedules. Each answer should satisfy Premack's time-based account of reinforcer value <u>and</u> also meet the response deprivation criterion for an effective contingency.

b. Give two contingencies <u>from a single person</u> (please specify a <u>single</u> time and context) that demonstrate that the reinforcement value of a single activity is <u>relative</u> to others, not an absolute or fixed functional role. Explain how your examples demonstrate the relativity of reinforcement.

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.

Anna August home using excercise as the neward. Say she can do 15 ckeris If she does S sawing depliving her of Exercish to set her to sew.

Andrew August home using excercise as remard. If he does 10 excercise he can read 15. You can't do this because his excercise is the longst and you can't use excercise as a remard. Making excercise at home in August idiosyncatic work for Anna and Andrew because 12 depends on other values, so one plan won't

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.

Anna I tame March: If she exercises 10 then she gets 35 music. This will work for Anna Home Murch but not Anna Home August because she already exercises 20 in August and Spends 35 on music in August, so that's specific to its time.

e. Give two contingencies that demonstrate that the reinforcement value of a single activity is <u>specific to its context</u>. Be sure to describe which kind of example you are giving and explain why your example is a 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.

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.

First I would take a survey from the ticks to see what their favorite activities were. I would put those activities on a list and tell them to rute them. Here are the results

arithmetic probs: 10 reading Adiscuss: 35 Geography: 0 internet searching: 50 handwriting: 10 Miss 70 Art: 40

I would then see that recess is the highest and Gersmanhy is the lowest. To get the students to improve their work I would say to get 60 recess they had to do 10 Geography, therefore depriving them of recess in order to get them to spend more time on Geography. I would expect the kids to spend more time on Geography a gulyact they didn't like in order to get access to their favorite implicated this with the pre-essesment.

Cost and Lon. fits one the kids are getting 6-the grades in Geography breause More time. To being spent on that subject. But kiels are losing recess time. [t should be implemented cause the cost outurishs the Linetits ?

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 8 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. 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 would bearn fastest on the first task because their learning history was by demonstation. They know this is how you do it and would bearn factor than Be apportunity Group 13 was. On the second task Group A would learn Slaver than B because of their learning history Thoughan's asit way of doing a routine and wolf Thoup is on the first task would hearn slower because they were encouraged to mix it up and didn't hearn a set way. But on the second task they would hearn the fastest, Breame they are karning a new routine and since they could mix up their routine they will be more open to heaving a new set routine.

4. (15 points) Generate your own example of classical conditioning using the neutral stimuli of the printed words dig and speed 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 different 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 addit human.

first we would show them the two words seperatly with no puft of air in the eye to 3.t a busbline. Then when we show them the word speed we gutt them in there ye but we would not putt them when shown the word dig. I would expect the subject to start blinking whenever he san the word speed in anticipation of the putt but have no reaction to dig. After he is trained to blink at the word Speed To jest for physical mediated generalization I would show him the word Smed. I would expect him to blink since the words look so much a like. To test for Semanticity mediated generalization I would show him a pricture of the curtoon speed Racer, Cassline he knows what it is) and I would expect him to blink breaked he know speed Rocar and he says 17->

[continue your answer on the next page if needed]

5. (15 points) Give an example of a form of rule governed behavior that would be useful in the face of an ineffective ("defective") contingency. Your answer would include both an original example of a defective contingency and the specific rule-based procedure to support the appropriate behavior that you think should occur. How would this rule-governed performance be useful or productive in dealing successfully with the natural relation between actions and their outcomes that you have described?

******** *** * * * * * * * * * <u>end</u> of the set of three questions, choose two of them]**************

first me much to figure out who people are still working across It may be they are late for class. What I would do is have watchdown that intersection. When they reached the other side the guard will be waiting. As soon is they get across the guard would whip them in the back making with every person who did this so its consistent. This would work becouse no one wants to set whippel everyday. An additional element would be it they used the proper crossings and not the "bad" one then they will be given a condypar.