PSYCHOLOGY 268 - Fall 2000 FINAL EXAM

Enter 4-digit ID # <u>345</u>] (last 4 of Student ID#) No Name Please Alt code for Posting: _

1. (total 30 points) Please answer part a, and then ANY TWO of the remaining parts. The percent time data apply to all versions of the question. Consider the following data collected on percent time spent on activities by two people:

	Anna Anna			AndrewAndrew	
	Mar	August		August	August
	Home	Home		Home	Camp
Reading	25	25	Exercise	10	40
TV	20	20	Read	15	25
Exercise	0	120	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 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. motrumental

Anna (max) IF do 20TV, then get 30 music. I suppose that the music will be the reinformer for watching more TU. Anna will want to increase heramount of "work" to increase heramound of contingent or prefered (music). Blc she is being apprived of music she will respond by increasing TV to meet her equilibrium of (Hotre) If does now work for 15, then get computer time for 30.
Here, findrew is being deprived of computer and so will Anour 0 inexpase his amount of carwork over equality in to

Answer any Two 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 and also meet the response deprivation criterion for an effective contingency.

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

Anna (max) If Anna does 25 reading, then get 30 music If Anna does 10 selping, then get [15 reading | reinforcer In this rose, Anna's reading/time can both be a reinforcer or be reinforced. In #1, be douse music is deprived or lower than desired, Anna will be reinforced to do fore reading to get her prefered music. In

case # a, roles are charged and reading is deprived. Because of mis deprivation, Anna will respond by marriaging sowing to achieve the desired readures, #1: readures is reinforced (instrumental) and #2:
reading is doing the reinforcing (contigent)

they both oan act as runforcers for other activities even though their preference levels differ.

d. Give two contingencies that demonstrate that the reinforcement value of a single activity is <u>specific to its time</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.

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.

For this situation, I would first survey the Rids to see which activities they preferred the most for sare of simplicity, these are "moct results" I found to set up my contingency program:

Orithmetric 5: I would set up a contingency that would mater reading to become sold set up a contingency that would mater exploring geo. 5 the lower in pref values (activities) with those preferred. For example, the students must. Internet search 15 the do arithmetric for 5, then get internets for 16. If do reading the for 10, then get Fine arts for 20. Fine arts time 30 If do explaining. For 5, then get Recess for 20. If do hardwriting for 16, then get Recess for 20.

At this point, the students would be reinforced by their prefered or contigent activities (internet, F. auts, Recess) to increase their amount of "work" or instrumental activities far thmetic, read, exp. geography, Thank writing). To test this contidency, I would run a base line. to first note the kirels at which the students do the activities (as seen above), Then, I would add in the intervention program. only If they performed their required, could they get their desired. To evaluate, after baseure & intervention, I could see if my contingent charged the behavior by dropping back to base une. I suppose "confidently" that this contigency schodule will work to motivate the school kids to do their less preferred (but essential to education) work. Costs may include more material to do increased amount of math (paper, problems) or time to make worksheets or tearning tools to do the mouth, reading (more books), maps for geo, lec. Of even more time to actually give the kids for their preferred when they achieve this. Benefits would include a more monuted class room will an increased skill in essential 5 of all actives, proceeding those being reinforced. I definitely recommend this proceeding for ANY class six could be charged to even work for older has !!

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

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 rounted out the sequences, often leading them by loudy counting the movements over a public address system. With group you demonstrated to them a couple of times the same set of 4 movements over a public address system. With group 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 say 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 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 learned by aurear instruction and imitation and therefore the saming histories.

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3. (15 points) Suppose you were working at a fitness center with two sets of aerobic exercisers, helping them acquire

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 adult human.

[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?

when a child is learning about cars + dangerous streets, they must rearn to look out for cars before crossing the street in a Rule-based (governed) method. It would be definited to send a young kid out into inshing traffic (confligency) to let them rearn that watering out for rars is essential (co survival)! Instead, a rule of "looking both ways before crossing the street." must be implemented for safety. We must take the rule-governed contingency to teach kids safety by their actions in order to have a positive (survival) outcome.

intense immediate consistant rewood. * Laxual post a sign saying
"No profestion crossing "Rist
To let them know it was in propri

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. In order to thep people from walking across a specific set of rail road tracks, I would first find out what context or why they choose to do this. Perhaps it is because it is a short-cut to the nearby supermanket * If so, I would set up a system of video cameras that would be working constantly all well, weetend, day, + right to see who crosses the tracks. In the high-tech world this is taking place in, the camera would know by registered cornea color + size who the person is (for all people in mistour must be registered by eye characteristics). Then, when a person is cought by the (various) cameras, they will receive animmedIATE FINE within lands, to their home saying they have 4 hours to pay a fine of \$100. which is an orbitous ENTENSE purishment. Due to this design, hopefully less people will cross the tracks to get to the supermantal quicker. In order to maximize this plan, I will set ap a contingency stating, "If aren't ticketed in 3 weeks for crossing tracks, then get a pook of supermarket coupons the form week! "In addition, I would remain mose who reported others crossling (in addition to the sight correct crossing? Camera recording it.)