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## Courses » Learning about Learning: A Course on Neurobiology of Learning and Memory

Announcements

Course

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## Unit 4 -Reinforcement



# Reinforcement learning/Operant Conditioning

conditioning.



Register for Certification exam

# Course outline

How to access the portal

Memory and Associative Learning/Classical Conditioning

Rescorla Wagner Model of Learning

#### Reinforcement learning/Operant Conditioning

- Introduction of Reinforcement Learning - I: Thorndike's view, Tolman's views, Skinner Box
- Introduction of Reinforcement Learning - II: Classification, Thorndike's view, Tolman's views, Skinner Box (cont)
- Introduction of Reinforcement Learning - III:

## Week 3: Assignment

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment.

Due on 2019-02-27, 23:59 IST.

This is an assignment based on Module 3 content, i.e. Reinforcement learning/Operant

Please be aware of the marks assigned to each question. A few of the questions do not carry any marks and thus do not contribute to the final score of assignment assessment. These are to facilitate your further thinking on the concepts taught.

- 1) Which of the following is true for operant/instrumental conditioning?
- 1 point

1 point

- Stimulus predicts the outcome
- Any response predicts the outcome
- Depending on the response, there is an outcome
- Neither stimulus nor response predict the outcome

No, the answer is incorrect.

Score: 0

## **Accepted Answers:**

Depending on the response, there is an outcome

- 2) If an animal develops responses in a reflexive (as opposed to cognitive) manner,
  - their performance progression shows a slow improvement with occasional reversal
  - their performance progression shows a rapid improvement with occasional reversal
  - their performance progression shows a rapid improvement with no reversal
  - it is not possible to decipher whether an animal learns in a reflexive or cognitive manner

No, the answer is incorrect.

Score: 0

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Linking	conditioning does not.
complex behaviors to simple	Classical conditioning events occur in the order Stimulus-Reinforcement-Response whereas operant conditioning events occur as Stimulus-Response-Reinforcement.
molecules	Classical conditioning results in a learned signal between two stimuli whereas operant
Sign Tracking vs Goal	conditioning results in a learned behavior.
Oriented; Learning	No, the answer is incorrect.  Score: 0
Linking	<b>f</b>
complex behaviors to simple	Accepted Answers:  Classical conditioning events occur in the order Stimulus-Reinforcement-Response whereas oper conditioning events occur as Stimulus-Response-Reinforcement.
molecules - II	4) Kohler supported the cognitive manner of learning. He opposed Thorndike's reflexive
Quiz : Week 3: Assignment	manner based on the criticism that the animal could not see the causal effect relationship between the pedal and the cage door.
Answer Key -	in
Week 3: Assignment	True.
	False.
VIDEOS	No, the answer is incorrect. Score: 0
Molecular basis	Accepted Answers:
of Memory and Learning	True.
Learning	5) Rather than waiting for a response to occur at random during instrumental conditioning, a <i>0 points</i> procedure called is often employed to speed things up.
	Anticipation.
	Shaping.
	Suppression.
	Anthropomorphizing.
	No, the answer is incorrect. Score: 0
	Accepted Answers:
	Shaping.
	6) Premack's principle states that: 1 point
	Most probable behaviour will reinforce most probable behaviour.
	Most probable behaviour will reinforce least probable behaviour.
	Least probable behaviour will reinforce most probable behaviour.
	Behaviours do not influence each other.
	No, the answer is incorrect. Score: 0
	Accepted Answers:
	Most probable behaviour will reinforce least probable behaviour.
	7) Which of the following is an example of the Premack Principle? 1 point
	A dog salivates when a bell signaling food is rung.
	A child is told, 'You can have cake if you eat your vegetables'.
	A child is punished for not cleaning his room.
	A child is given dessert before vegetables.
	No, the answer is incorrect.
	Score: 0

Accepted Answers: A child is told, 'You can have cake if you eat your vegetables'.	
8) Materials like food for hungry animals or water for thirsty animals are called,	1 point
Secondary reinforcers	
Primary reinforcers	
Intermittent reinforcers	
Fixed reinforcers	Ţ
No, the answer is incorrect. Score: 0	y
Accepted Answers: Primary reinforcers	<b>•</b>
9) When a thing acquires some characteristics of a reinforcer because of its consistent association with the primary reinforcement, we call it a/an:	1 pc in
Secondary reinforcer	8+
Primary reinforcer	
Fixed reinforcer	
Intermittent reinforcer	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
Secondary reinforcer	
10Primary reinforcers are generalizable compared to secondary reinforcers.	1 point
True.	
False.	
No, the answer is incorrect. Score: 0	
Accepted Answers: False.	
11)Secondary reinforcers are generalizable compared to primary reinforcers.	1 point
True,	
False.	
No, the answer is incorrect. Score: 0	
Accepted Answers: True,	
12)n one experiment, the chimpanzees were taught to insert poker chips in a vending machine in order to obtain grapes. When this was done, they were made to pull, with all their stran iron bar attached to a similar machine to obtain poker chips. The chimpanzees learned it too because they were allowed to cash those chips for grapes afterwards. Here the token chips had a/an:	,
Primary reinforcing value	
Extra reinforcing value	
Special reinforcing value	
Secondary reinforcing value	

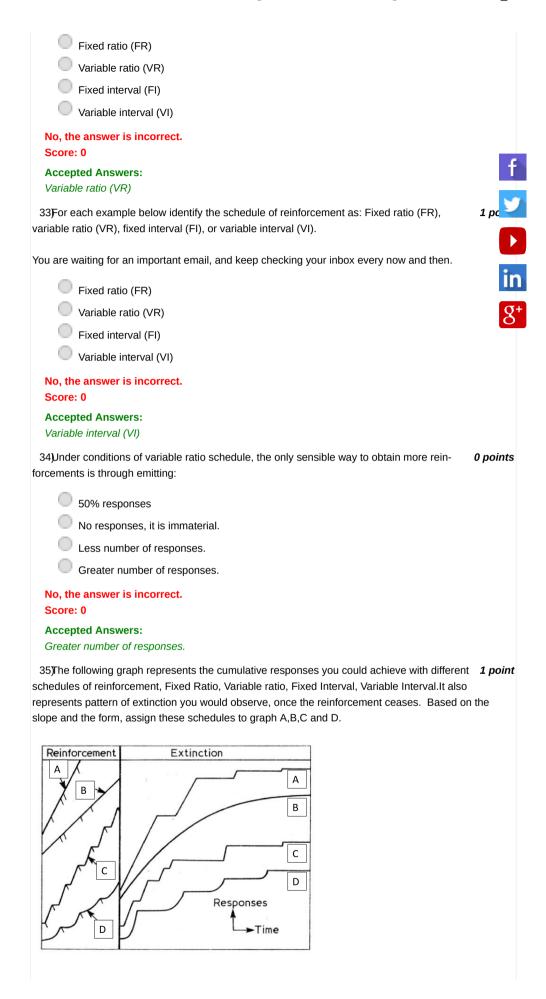
No, the answer is incorrect. Score: 0	
Accepted Answers: Secondary reinforcing value	
13)According to response-deprivation theory, an activity becomes reinforcing when an individual is prevented from engaging in it at the baseline rate.	point
True, False.	f
No, the answer is incorrect. Score: 0	y
Accepted Answers: True,	<b>•</b>
14Reinforcement can be distinguished from punishment in that reinforcement a target behavior, whereas punishment a target behavior.	<sub>ρε</sub> in <del>Q+</del>
removes; establishes	0
increases; decreases	
discourages; encourages	
inhibits; enhances	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
increases; decreases	
15Punishment training can be given by two ways, either by providing with an additional  displeasing/or aversive stimulus Punishment, OR by taking away or with-holding a pre-existing pleasurable stimulus/privilege Punishment.	point
Positive, Negative	
Negative, Positive	
Neutral, Negative	
Positive, Negative	
No, the answer is incorrect. Score: 0	
Accepted Answers: Positive, Negative	
16)You are absent from school for an afternoon. When you return, you read the report left by your substitute. The report states that half of your class behaved wonderfully and completed their assignment. The other half of the class misbehaved and did not finish their assignment. For the students who behaved, you give them free time on the computer. For the students who misbehave you give them an extra, more difficult assignment to accomplish. In this situation, you provided	
Positive reinforcement and positive punishment.	
Positive reinforcement and negative punishment.	
Negative reinforcement and negative punishment.	
Negative reinforcement and positive punishment.	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
Positive reinforcement and positive punishment.	

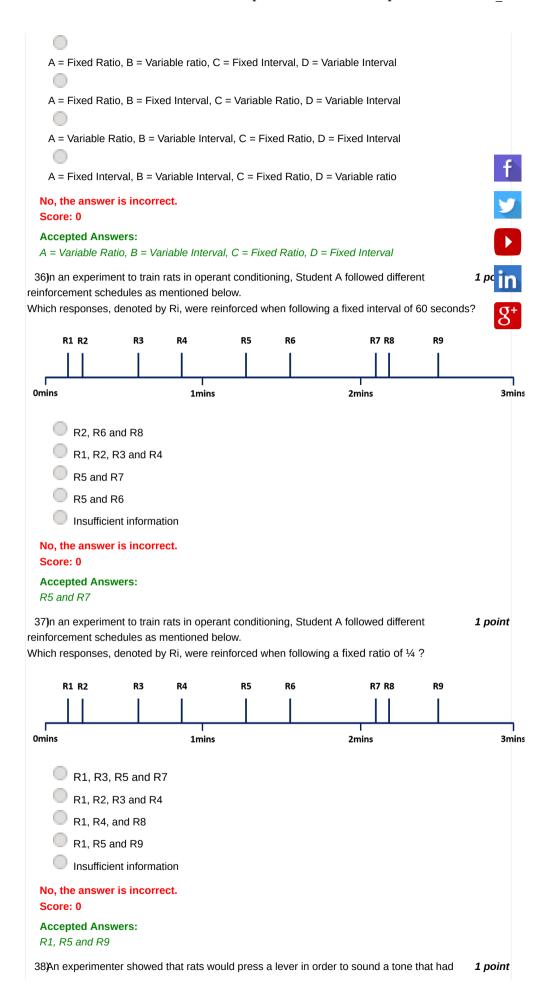
Reinforcement (NR), Positive Punishment (PP) or Negative Punishment (NP):	1 point
A child is given a cookie for saying 'please'.	
Positive Reinforcement (PR)	
Negative Reinforcement (NR)	
Positive Punishment (PP)	£
Negative Punishment (NP)	
No, the answer is incorrect. Score: 0	<b>y</b>
Accepted Answers: Positive Reinforcement (PR)	D
18)For each example identify whether it is a case of Positive Reinforcement (PR), Negative Reinforcement (NR), Positive Punishment (PP) or Negative Punishment (NP):	1 pc in
A child's permitted TV time was cut by 20 minutes for not listening to her mother.	O
Positive Reinforcement (PR)	
Negative Reinforcement (NR)	
Positive Punishment (PP)	
Negative Punishment (NP)	
No, the answer is incorrect. Score: 0	
Accepted Answers: Negative Punishment (NP)	
19) For each example identify whether it is a case of Positive Reinforcement (PR), Negative Reinforcement (NR), Positive Punishment (PP) or Negative Punishment (NP):	0 points
You point and laugh at a person with a silly haircut, and that person hits you.	
Positive Reinforcement (PR)	
Negative Reinforcement (NR)	
Positive Punishment (PP)	
Negative Punishment (NP)	
No, the answer is incorrect. Score: 0	
Accepted Answers: Positive Punishment (PP)	
20) For each example identify whether it is a case of Positive Reinforcement (PR), Negative Reinforcement (NR), Positive Punishment (PP) or Negative Punishment (NP):	1 point
To stop his parents from nagging constantly, the child does his chores.	
Positive Reinforcement (PR)	
Negative Reinforcement (NR)	
Positive Punishment (PP)	
Negative Punishment (NP)	
No, the answer is incorrect.	

Score: 0	
Accepted Answers: Negative Reinforcement (NR)	
21For each example identify whether it is a case of Positive Reinforcement (PR), Negative <b>1 point</b> Reinforcement (NR), Positive Punishment (PP) or Negative Punishment (NP):	nt
A student has 95% attendance and so his lowest scored test is removed from the final grade.	•
Positive Reinforcement (PR)	f
Negative Reinforcement (NR)	9
Positive Punishment (PP)	<i>y</i>
Negative Punishment (NP)	
No, the answer is incorrect. Score: 0	n
Accepted Answers: Negative Reinforcement (NR)	<b>3</b> +
22For each example identify whether it is a case of Positive Reinforcement (PR), Negative <b>1 point</b> Reinforcement (NR), Positive Punishment (PP) or Negative Punishment (NP):	nt
Traffic Police fines you for parking your vehicle in the No Parking spot.	
Positive Reinforcement (PR)	
Negative Reinforcement (NR)	
Positive Punishment (PP)	
Negative Punishment (NP)	
No, the answer is incorrect.	
Score: 0	
Score: 0 Accepted Answers:	ηt
Score: 0  Accepted Answers:  Positive Punishment (PP)  23For each example identify whether it is a case of Positive Reinforcement (PR), Negative 1 points	nt
Accepted Answers:  Positive Punishment (PP)  23For each example identify whether it is a case of Positive Reinforcement (PR), Negative 1 point Reinforcement (NR), Positive Punishment (PP) or Negative Punishment (NP):  You are sitting in an uncomfortable chair and having back pain and you try to change your posture to	nt
Accepted Answers:  Positive Punishment (PP)  23For each example identify whether it is a case of Positive Reinforcement (PR), Negative 1 point Reinforcement (NR), Positive Punishment (PP) or Negative Punishment (NP):  You are sitting in an uncomfortable chair and having back pain and you try to change your posture to be comfortable.	nt
Score: 0  Accepted Answers:  Positive Punishment (PP)  23For each example identify whether it is a case of Positive Reinforcement (PR), Negative 1 point Reinforcement (NR), Positive Punishment (PP) or Negative Punishment (NP):  You are sitting in an uncomfortable chair and having back pain and you try to change your posture to be comfortable.  Positive Reinforcement (PR)	nt
Score: 0  Accepted Answers: Positive Punishment (PP)  23For each example identify whether it is a case of Positive Reinforcement (PR), Negative 1 point Reinforcement (NR), Positive Punishment (PP) or Negative Punishment (NP):  You are sitting in an uncomfortable chair and having back pain and you try to change your posture to be comfortable.  Positive Reinforcement (PR)  Negative Reinforcement (NR)	nt
Score: 0  Accepted Answers:  Positive Punishment (PP)  23For each example identify whether it is a case of Positive Reinforcement (PR), Negative 1 point Reinforcement (NR), Positive Punishment (PP) or Negative Punishment (NP):  You are sitting in an uncomfortable chair and having back pain and you try to change your posture to be comfortable.  Positive Reinforcement (PR)  Negative Reinforcement (NR)  Positive Punishment (PP)	nt
Accepted Answers:  Positive Punishment (PP)  23For each example identify whether it is a case of Positive Reinforcement (PR), Negative 1 point Reinforcement (NR), Positive Punishment (PP) or Negative Punishment (NP):  You are sitting in an uncomfortable chair and having back pain and you try to change your posture to be comfortable.  Positive Reinforcement (PR)  Negative Reinforcement (NR)  Positive Punishment (PP)  Negative Punishment (NP)  No, the answer is incorrect.	nt
Score: 0  Accepted Answers: Positive Punishment (PP)  23For each example identify whether it is a case of Positive Reinforcement (PR), Negative 1 point Reinforcement (NR), Positive Punishment (PP) or Negative Punishment (NP):  You are sitting in an uncomfortable chair and having back pain and you try to change your posture to be comfortable.  Positive Reinforcement (PR) Negative Reinforcement (NR) Positive Punishment (PP) Negative Punishment (NP) No, the answer is incorrect. Score: 0 Accepted Answers:	
Score: 0  Accepted Answers:  Positive Punishment (PP)  23For each example identify whether it is a case of Positive Reinforcement (PR), Negative Reinforcement (NR), Positive Punishment (PP) or Negative Punishment (NP):  You are sitting in an uncomfortable chair and having back pain and you try to change your posture to be comfortable.  Positive Reinforcement (PR)  Negative Reinforcement (NR)  Positive Punishment (PP)  Negative Punishment (NP)  No, the answer is incorrect.  Score: 0  Accepted Answers:  Negative Reinforcement (NR)  24You are a manager of a small office, where productivity is dropping. You cannot monitor your employees all the time, even though it increases work output, because that is a time consuming	
Score: 0  Accepted Answers:  Positive Punishment (PP)  23For each example identify whether it is a case of Positive Reinforcement (PR), Negative   Reinforcement (NR), Positive Punishment (PP) or Negative Punishment (NP):  You are sitting in an uncomfortable chair and having back pain and you try to change your posture to be comfortable.  Positive Reinforcement (PR) Negative Reinforcement (NR) Positive Punishment (PP) Negative Punishment (NP) No, the answer is incorrect. Score: 0 Accepted Answers: Negative Reinforcement (NR)  24)You are a manager of a small office, where productivity is dropping. You cannot monitor   1 point your employees all the time, even though it increases work output, because that is a time consuming and inefficient practice for you. What schedule would you follow to check in on your employees?	

Fixed ratio	
No, the answer is incorrect. Score: 0	
Accepted Answers: Variable interval	
25)After a behavior is established, the best way to maintain it for the long run is to reinforce	it <b>0 points</b>
Once.	Ť
Constantly.	<b>y</b>
Frequently.	
Intermittently.	L
No, the answer is incorrect. Score: 0	in
Accepted Answers: Intermittently.	$g^+$
26For each example below identify the schedule of reinforcement as: Fixed ratio (FR), variable ratio (VR), fixed interval (FI), or variable interval (VI).	1 point
You get paid once every two weeks.	
Fixed ratio (FR)	
Variable ratio (VR)	
Fixed interval (FI)	
Variable interval (VI)	
No, the answer is incorrect. Score: 0	
Accepted Answers:  Fixed interval (FI)	
27For each example below identify the schedule of reinforcement as: Fixed ratio (FR), variable ratio (VR), fixed interval (FI), or variable interval (VI).	1 point
A carpenter is paid Rs. 1000 for every 10 tables he fixes.	
Fixed ratio (FR)	
Variable ratio (VR)	
Fixed interval (FI)	
Variable interval (VI)	
No, the answer is incorrect. Score: 0	
Accepted Answers: Fixed ratio (FR)	
28For each example below identify the schedule of reinforcement as: Fixed ratio (FR), variable ratio (VR), fixed interval (FI), or variable interval (VI).	0 points
Students are released from the class-room for a small break after every 3 classes/periods	
Fixed ratio (FR)	
Variable ratio (VR)	
Fixed interval (FI)	

Variable interval (VI)	
No, the answer is incorrect. Score: 0	
Accepted Answers: Fixed interval (FI)	
29For each example below identify the schedule of reinforcement as: Fixed ratio (FR), variable ratio (VR), fixed interval (FI), or variable interval (VI).	0 points
A fly fisherman casts and reels back his line several times, on average every 5 times, before fish.	e catchin
Fixed ratio (FR)	
Variable ratio (VR)	•
Fixed interval (FI)	in
Variable interval (VI)	g+
No, the answer is incorrect. Score: 0	
Accepted Answers: Variable ratio (VR)	
30For each example below identify the schedule of reinforcement as: Fixed ratio (FR), variable ratio (VR), fixed interval (FI), or variable interval (VI).	0 points
You get a rupee after every 6 empty bottles you return to the shop	
Fixed ratio (FR)	
Variable ratio (VR)	
Fixed interval (FI)	
Variable interval (VI)	
No, the answer is incorrect. Score: 0	
Accepted Answers: Fixed ratio (FR)	
31For each example below identify the schedule of reinforcement as: Fixed ratio (FR), variable ratio (VR), fixed interval (FI), or variable interval (VI).	1 point
A car salesman gets a bonus after every 5 sales.	
Fixed ratio (FR)	
Variable ratio (VR)	
Fixed interval (FI)	
Variable interval (VI)	
No, the answer is incorrect. Score: 0	
Accepted Answers: Fixed ratio (FR)	
32For each example below identify the schedule of reinforcement as: Fixed ratio (FR), variable ratio (VR), fixed interval (FI), or variable interval (VI).	1 point
Shoaib Akhtar gets a wicket on an average of every 10 balls (sometimes a little more often, sometimes less).	





previously been paired with food. What is this a demonstration of?	
Primary reinforcement	
Instrumental conditioning	
Conditioned reinforcement	
Second order conditioning	
No, the answer is incorrect. Score: 0	
Accepted Answers: Second order conditioning	7
39)Higher-order conditioning demonstrates which of the following?	
After training, a CS can function as a US.	
After training, a US can function as a CS.  After training, a US can function as a CS.	1
CSs cannot function as USs.	+
USs cannot function as CSs.	
No, the answer is incorrect. Score: 0	
Accepted Answers: After training, a CS can function as a US.	
40)When advertisers use attractive models or popular cheerful songs to advertise their products they are using second/or higher order conditioning to sell their products.	
True	
False	
No, the answer is incorrect. Score: 0	
Accepted Answers: True	
41)We have learnt that pressing the lift button (response) makes the lift arrive at our floor from <b>1</b> point the floor it is currently at. However, when we are impatient or in a hurry we end up pressing the lift button several times, even though we know logically and through experience that it will not make the lift arrive any faster. This is a reflexive rather than a cognitively driven response.	
True	
False	
No, the answer is incorrect. Score: 0	
Accepted Answers: True	
42)You have grouped a sub-population of mice available to you in your lab, based on their high <b>1</b> point locomotor activity in an open field test and low impulse control in DRL (Differential Reinforcement of Low rates of responding) task (Group A). The other population (Group B) is the high impulse control, low locomotor activity group. After training them in an operant conditioning task, where a lever press is reinforced by food (when a tone is played), you stop providing them food. Which group stops performing lever presses first?	
Both Groups A and B	
Group A	
Group B	

