Quiz 3

Which of the following is NOT a factor influencing simple reaction time
a. Familiarity of signal
b. Gender
c. Age
d. Alertness level
Ans: B
Choice RTs are longer than simple RTs
a. True
b. False
Ans: True
Drawing can be an indicator of the cognitive level of a child
a. True
b. False
Ans: True
Despite its later contradictions, which theory was consistent with Hick-Hyman's law?
a. Computational learning theory
b. Automata theory
c. Information theory
d. Coding theory
Ans: C information theory
S-R compatibility is defined by the relation between the stimulus location and the anatomical
identity of the hand making the response.
a. True
b. False
Ans: False
The principle that states that equal angles are drawn in equal times is called
principle.
Ans: Isogeny
A 1' (4 2/2 lD I 1 1 1 4 Cd
According to the 2/3rd Power Law, when we draw a curve, the angular velocity of the pen
increases linearly with the curvature
a. True
b. False
Ans: False
The hemisphere of the brain is specialized for language, in general
Ans: Left

- According to the rate scaling principle, writing rate is directly proportional to the writing speed
 - a. True
 - b. False

Ans: False

- Which of the following is **not** a writing stage?
 - a. Phoneme
 - b. Grapheme
 - c. Allographs
 - d. Words

Ans: Phoneme

- Which of the following explains the ²/₃ power law?
 - a. Oscillation model
 - b. Angular velocity theory
 - c. Cognitive processing theory
 - d. Anatomical curvature model

Ans: A

- "Marco treams of going abroad" represents which error?
 - a. Lexical
 - b. Letter substitution
 - c. Allographic error
 - d. Letter repetition

Ans: B

- According to the rate scaling hypothesis, writing rate is directly proportional to
 - a. Writing speed
 - b. Dominant hand
 - c. Precision grasp
 - d. Writing size

Ans: d

- The iterative corrections model can be used to explain Fitts law
 - a. True
 - b. False

Ans: True

- Medial temporal region of the brain help on motion planning
 - a. True
 - b. False

Ans: False

• "Its two hard to understand"--- What kind of writing error is associated with "two"

Ans: Lexical/Word

	described by-
	a. Hook's Law
	b. Fitt's Law
	c. ² / ₃ Power Law
	d. Law of Reciprocity
	Ans: C
•	What is 'A' in $\frac{2}{3}$ Power Law: $A(t) = kC(t)^{\frac{2}{3}}$?
	a. Curvature
	b. Power Unit
	c. Empirical Constant
	d. Angular Velocity
A	Ans: D
•	Hick-Hayman law describes how much decision time it takes for a person to make a decision
	as a result of the possible choices,
	a. True
	b. False
	Ans: True
	According to the SNARC effect, we can respond first to the smaller number with our right hand a. True b. False Ans: False
	The difficulty with using basic grammar and syntax, or word order and sentence structure known as
	Ans: Agrammatism
•	is responsible for planning and reaching Ans: parietal reach region/Pre-motor cortex /Motor cortex
	Can we calculate Movement Time from the given equation? a + b log2 (2 D (Distance)/ W (Width)
	a. Yes
	b. No
	Ans: Yes
•	is a hand posture with which objects can be held and it does not involve hand
	orientation
	Ans: Grasping

• Robust relationship between geometrical and temporal aspects of human movement is

	the image is perceived the rules pertaining to starting stroke may change
a. True	
b. False Ans True	
Alls True	
Depending on how	we plan a trajectory using hand space, joint space changes
a. True	
b. False	
Ans: True	
Ans: Dysgraphia	is learning ability disorder that mainly results in impaired writing ability
Perception precedes	s response selection
a. True	
b. False	
Ans: true	
Response selection	precede response programming
a. True	
b. False	
Ans: True	
	involves distinguishing among two or more stimuli and choosing the
response according	to stimuli
Ans: Choice reacti	on time
Select correct option	n
-	with the increase in number of stimuli-responses
a) increases	
b) decreases	
c) does not	
Ans: Increases	change
	of the same category are presented and mapped to the same response, then
it involves	
a. Response p	
b. Stimulus pr	· ·
Ans Response prod	cessing
effe	ct suggests that left hand response is faster to smaller numbers and right
	ster to larger numbers
Ans SNARC effect	
is	type of grasping in which the movement is evoked with the help of arms

- a. precision grasping
- b. intermediate grasping
- c. Power grasping

Ans power grasping

- Simple Reaction Time tasks involve mapping of single stimulus to a single response
 - a. True
 - b. False

Ans True

What parts of the cortex or stream is responsible for visually guided actions ______
 Ans: Dorsal pathway

• True or False:

While doing a motion, it takes less time for eyes to form a saccade in comparison to muscle movement

Ans: True

 Reaction times are _____ when individual stimuli and responses match than when they do not match.

Ans: Faster/Lower

- The extent of movement is planned in advance of the movement itself.
 - o True
 - o False

Ans: True

- Choose the correct order between stimulus and response
 - a. Response Selection->Perception->Response Programming
 - b. Perception->Response Selection->Response Programming
 - c. Response Programming->Response Selection->Perception
 - d. Perception->Response Programming->Response Selection-

Ans: B Perception->Response Selection->Response Programming

- What is the approximate time for performing an action with visual feedback and taking advantage of it
 - a. ~100ms
 - b. ~220ms
 - c. ~200ms
 - d. ~150ms

Ans: C 200ms

Accord	ling to Fitt's law, movement time is proportional to the size of the target
and	proportional to its distance.
a.	Directly, Inversely
b.	Directly, Directly
c.	Inversely, Inversely
d.	Inversely, Directly
Ans: In	nversely, Directly
Which	of the following is a power grasping movement:
a.	Holding a pen
b.	Holding a cup
c.	Holding a coin
d.	None of the above
Ans: H	folding a cup
Reachi	ng action is made up of and
Ans: T	ransport/movement, Grasping
As the	number of choices increases, the reaction time increases:
a.	Linearly
b.	Quadratically
c.	Logarithmically
d.	None of the above
Ans: C	: Logarithmically