

Solution Quiz#1

Feb 25, 2011

BESE 15

(2)

1. What is the visual angle of a 4 meters tall object at a distance of 2 meters from the eye?

D= 2 meters

S = 4 meters

Theta = $2 \times \arctan(H/2D)$

Theta = $2 \times \arctan(1)$

Theta = 90 degrees.

(1)

2. Why is it said that all options in the pie menu are equally clickable?

According to Fitt's law the time to click a target is a function of the distance from the target and the size of the target.

$T=a+b \log(D/S+1)$

Since both D and S are same for each option in a pie menu, it is generally said that each option is equally clickable i.e. each option takes approx the same time to click.

(3)

3. Identify each of the following as a result of Decay, Retroactive Interference or Proactive Inhibition.

- a. I cannot recall my family's phone number when I was in the first grade. (Decay)
- b. BS15 students have trouble understanding the topic of 'reasoning' because they confuse it with the similar topic they studied in Discrete Math. (Proactive Inhibition)
- c. ESPN was on channel 12 but now its on channel 22, every time I want to tune in to ESPN, I end up at channel 12. (Proactive Inhibition)

(4)

4. Identify the type of long term memory in each sentence of the following text.

- a. We had loads of fun at the concert. (Episodic Memory)
- b. The drumming was simply great. (Episodic Memory)
- c. This double bass drumming was pioneered by Robb Reiner. (Semantic Memory)
- d. I play drums too. (Procedural Memory – Skill/Habit)