

## PSYCH/CS L 271 – PRACTICE EXAM

**This practice exam is about half as long as the actual exam. Since the actual exam will be 75 minutes long, you should be able to answer all of these questions in less than 40 minutes.**

**For each of the Questions 1 to 7, exactly one of the four given answers (a) to (d) is correct. Please circle the letter of that answer. You will get one point for every correct answer.**

**Question 1:** What are the types of photoreceptors in the human retina?

- (a) Ganglion cells and bipolar cells
- (b) Rods and cones
- (c) Iris and pupil
- (d) Pyramidal neurons

**Question 2:** What types of eye movements do people predominantly make when inspecting a static (motionless) picture?

- (a) Fixations and saccades
- (b) Smooth pursuit and saccades
- (c) Fixations and torsional eye movements
- (d) Saccades and vergence eye movements

**Question 3:** What type of memory has the fastest decay?

- (a) Episodic memory
- (b) Iconic memory
- (c) Working memory
- (d) Echoic memory

**Question 4:** What is the corpus callosum?

- (a) A brain area mainly responsible for speech production
- (b) A brain area mainly responsible for speech understanding
- (c) The main connection between the two hemispheres of the brain
- (d) The connection between the brain and the peripheral nervous system

**Question 5:** What is a morpheme?

- (a) The smallest unit of sound in a language
- (b) A sound modifier
- (c) A rule that governs word structure
- (d) The smallest unit of spoken language that has meaning

**Question 6:** What is solipsism? A theory assuming that...

- (a) There is no physical universe but only a mental one that exists in each person's mind
- (b) There is no mental universe but only a physical one
- (c) There is no physical universe but only a mental one that exists in God's mind
- (d) Both mental and physical substances exist

**Question 7:** What is the most effective way to inform the scientific community about one's work?

- (a) Journal publications
- (b) Conference talks
- (c) Book chapters
- (d) Conference proceedings publications

**For each of the Questions 8 to 10, write down your answer in a few sentences. You will get a maximum of two points for every answer.**

**Question 8:** What is a neurotransmitter?

**Question 9:** Explain the distinction between procedural and declarative memory.

**Question 10:** What is visual attention, and why do we need it?

**Question 11 (5 points):** Describe in detail (multiple paragraphs) how, with the help of split-brain patients, you can study experimentally if the right brain hemisphere has at least some rudimentary ability to understand and produce written language.

