

Chapter 1 Multiple-Choice Quiz

1. The field of human motor control is concerned with
 - a. Movement
 - b. Stability
 - c. Movement and stability
 - d. Human motivation

2. Developing an understanding of human motor control can benefit
 - a. Sports
 - b. The arts
 - c. The home and the workplace
 - d. All of the above

3. Human motor control largely relies on tacit knowledge. This is knowledge that
 - a. Is easy to articulate
 - b. Can immediately be expressed in verbal propositions
 - c. Is readily expressed as mathematical equations
 - d. Is implicit

4. A way to demonstrate understanding of human motor control would be to pass a Turing test of motor intelligence. This would mean
 - a. Developing robots that can crack codes in warfare
 - b. Developing robots whose movements cannot be distinguished from those of humans
 - c. Developing robots that can tour around on their own
 - d. Developing robots that can always beat people in air hockey

5. Useful levels of description for a system like the human motor system are
 - a. The computational level
 - b. The procedural level
 - c. The implementation level
 - d. All of the above

6. Excluding the computational level of description from the study of human motor control would result, primarily, in the exclusion of
 - a. Neurophysiology

- b. Robotics
 - c. Human factors
 - d. None of the above
7. Excluding the procedural level of description from the study of human motor control would result, primarily, in the exclusion of
- a. Neurophysiology
 - b. Robotics
 - c. Human factors
 - d. None of the above
8. Excluding the implementation level of description from the study of human motor control would result, primarily, in the exclusion of
- a. Neurophysiology
 - b. Robotics
 - c. Human factors
 - d. None of the above
9. Control theory arises mainly in which domain relevant to human motor control?
- a. Physics
 - b. Statistics
 - c. Engineering
 - d. Cognitive science
10. The study of variability arises mainly in which domain relevant to human motor control?
- a. Physics
 - b. Statistics
 - c. Engineering
 - d. Cognitive science
11. The study of the software underlying human motor control arises mainly in which domain relevant to this field?
- a. Physics
 - b. Statistics
 - c. Engineering
 - d. Cognitive science

12. Oculo-motor control is
- The control of walking, running, and other forms of locomotion
 - The control of smiling, laughing, hiccupping, and other oral forms of behavior
 - The control of speech
 - The control of eye movements
13. According to the modularity hypothesis as applied to human motor control, one would expect
- Researchers in this field to take a modern perspective
 - Researchers in this field to take a post-modern perspective
 - Researchers in this field to take a modest perspective
 - Researchers in this field to allow that at least some motor functions are carried out by specialized modules
14. Researchers in the field of human motor control consider variability of performance in tasks like aiming for a target to be
- Inevitable
 - Bad and something to avoid at all costs
 - Something that cannot be analyzed
 - Both b and c
15. In the study of human motor control, animal motor control is considered
- Irrelevant
 - A somewhat interesting sidelight but mainly a distraction from human motor control
 - Only useful for identifying ways that human motor control is superior to motor control in nonhuman animals
 - A useful way to add to the understanding of the basic challenges and mechanisms of human motor control

Chapter 1 Answer Key

1. c
2. d
3. d
4. b
5. d
6. b
7. c
8. a
9. c
10. b
11. d
12. d
13. d
14. a
15. d