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Chapter 02 The Measurement of Motor Performance Answer Key

Multiple Choice Questions

- Which of the following would be considered a performance outcome measure?
 - A. The distance a ball was

kicked

- B. The angle of the knee at ball impact
- C. The electrical activity in the quadriceps muscles during the kick
- D. The electrical activity in the brain during the kick

Accessibility: Keyboard Navigation
Topic: Discussion

- 2. Which of the following would be considered a performance production measure?
 - A. The height of a jump
 - B. The time to complete a jump
 - C. The number of successful jumps to reach a target
 - **<u>D.</u>** The joint torque at the knee just prior to take off during a jump

Accessibility: Keyboard Navigation

Topic: Discussion

- 3. Which two events mark the beginning and the end of the interval known as reaction time?
 - A. Warning signal and stimulus signal
 - <u>**B.**</u> Stimulus signal and initiation of the response
 - C. Stimulus signal and the completion of the response
 - Warning signal and the initiation of the response

Accessibility: Keyboard Navigation

		Topic. Discussion, Neaction Time
4.	When RT is fractionated, the interval that represents the time it take information from the environment is referred to as the:	ces to receive and transmit
	A. Premotor timeB. Motor timeC. Discrimination timeD. Response time	Accessibility: Keyboard Navigation Topic: Discussion; Reaction Time
5.	An individual must respond to only one of several signals presente time.	ed in this type of reaction
	A. Simple RT B. Choice RT C. Discrimination RT D. Serial RT	Accessibility: Keyboard Navigation
6.	This error measure evaluates <u>performance consistency</u> during a se	Topic: Discussion; Reaction Time
	A. A	Accessibility: Keyboard Navigation Topic: Discussion; Error Measures

7.	This error measure evaluates <u>overall accuracy</u> during a series of trials.
	<u>A.</u> A E
	B. C
	E E
	C. V
	E
	D. R
	E
	Accessibility: Keyboard Navigatio. Topic: Discussion; Error Measure
8.	To determine muscle activation patterns, this measurement method could be used.
	A EM
	<u>A.</u> EM G
	B. EE
	G
	C. Kinetic
	S
	D. Kinematic
	S
	Accessibility: Keyboard Navigation
	Topic: Discussion; Kinematic Measure
9.	The change in spatial position of a limb is called:
	A. Displacement
	B. Velocity
	C. Acceleration
	D. Linear motion.
	Accessibility: Keyboard Navigatio Topic: Discussion; Kinematic Measure

10.	<u>Displacement</u> , <u>velocity</u> , and <u>acceleration</u> are measures of motion.
	A. Kineti
	C
	B. Kinemati
	C. Forc
	e . An auden marking
	D. Angular motion
	Accessibility: Keyboard Navigation Topic: Discussion; Kinematic Measures
11.	The term <u>kinetics</u> refers to motion caused by
	A. Velocit
	y D. Amerikan
	B. Angular acceleration
	<u>C.</u> Forc
	е
	D. Movement
	Accessibility: Keyboard Navigation Topic: Discussion; Kinematic Measures
12.	The measure of muscle activity that detects the lateral displacement of a muscle's belly following maximal percutaneous neuromuscular stimulation is referred to as:
	A. Electromyography (EMG)
	B. Whole muscle mechanomyography
	(wMMG)
	C. Electroencephalography (EEG)
	D. Near infrared spectroscopy
	(NIRS)
	Accessibility: Keyboard Navigation

Topic: Discussion; Kinetics

13.	Near infrared spectroscopy (NIRS) can be used to measure activity in the:
	A. Brai
	n
	B. Muscle
	S
	C. Brain and
	muscles D. None of
	these
	Accessibility: Keyboard Navigatio Topic: Discussion; Kinetic
14.	EEG recordings will show waves when the cerebral cortex is active.
	A. Alph
	a
	<u>B.</u> Bet a
	C. Thet
	a
	D. Delt
	a
	According the World and Marinestia
	Accessibility: Keyboard Navigatio. Topic: Discussions; Brain Activity Measure
15.	This brain activity measurement technique realigns hydrogen atoms in the body and may provide clear 2D and 3D images of the brain.
	promas disar 25 and 35 images of the Stain.
	A. EE
	G
	B. PE
	T
	C. EM
	G D fMD
	<u>D.</u> fMR I
	Accessibility: Keyboard Navigation
	Topic: Discussions; Brain Activity Measure

Short Answer Questions

16.	The interval of time between the initiation and completion of a movement is called	
	Movement time	
	Topic: Discussion; Reaction Time	
17.	A person had the following error scores for a series of 5 trials: +5, -3, +8, +18, -6. The average AE score is	
	8	
	Topic: Discussion; Error Measures	
8.	Variable error is an indicator of a person's performance when performing a skill that requires hitting a target.	
	consistency [Also acceptable: variability]	
	Topic: Discussion; Error Measures	
9.	The kinematic measure of motor performance that describes the speeding up and slowing down of a movement is called	
	acceleration	
	Topic: Discussion; Kinematic Measures	

20.	The method of recording electrical activity in the muscles during movement is called
	EMG [or electromyography]
	Topic: Discussion; Kinetics
21.	If you want to describe the movement of an object in a straight line, the type of motion you would describe is referred to as
	linear
	Topic: Discussion; Kinematic Measures
22.	Force can be calculated from the kinematics of a movement if you know the mass of the moving object and the of the movement.
	acceleration
	Topic: Discussion; Kinematic Measures
23.	The rotary force of body segments around their joints axes is known as joint
	torque
	Topic: Discussion; Kinetics
24.	The brain activity measurement technique that shows blood flow in the brain is known as
	PET [or Positron Emission Topography]

25.	The calculation of provides an objective measure of the coordination between two limbs or limb segments by comparing the specific location of each limb or limb segment in one cycle of a cyclic movement.	
	relative phase [or continuous relative phase]	
	Topic: L	Discussion; Measuring Coordination
True	/ False Questions	
26.	Simple RT involves one signal and more than one possible respon	se.
	<u>FALSE</u>	
		Accessibility: Keyboard Navigation Topic: Discussion; Reaction Time
27. Reaction time and movement time measure the same aspect of performance		erformance.
	<u>FALSE</u>	
		Accessibility: Keyboard Navigation Topic: Discussion; Reaction Time
28. Constant error (CE) refers to a person's performance bias during a se		series of trials.
	<u>TRUE</u>	
		Accessibility: Keyboard Navigation Topic: Discussion; Error Measures
29.	Radial error (RE) would be the appropriate general accuracy meas of a golf putt.	sure to assess the accuracy
	<u>TRUE</u>	
		Accessibility: Keyboard Navigation Topic: Discussion; Error Measures

30. Root-mean-square error (RMS) is typically used to measure accuracy in discrete skills.

FALSE

Accessibility: Keyboard Navigation Topic: Discussion; Error Measures

31. When a performance score is recorded as m/sec⁻¹, the performance measure is velocity.

TRUE

Accessibility: Keyboard Navigation Topic: Discussion; Kinematic Measures

32. TMS involves directing a short burst of magnetic waves at a specific area of the brain cortex in order to temporarily activate that area.

FALSE

Accessibility: Keyboard Navigation Topic: Discussion; Brain Activity Measures

33. If you move your two arms forward and backward several times at the same time, the phase relationship between them is 0 degrees.

TRUE

Accessibility: Keyboard Navigation Topic: Discussion; Measuring Coordination

34. The two legs are 180 degrees out of phase during running.

TRUE

Accessibility: Keyboard Navigation Topic: Discussion; Measuring Coordination