Stude	ent nar	ne:
TRUI 1)		SE - Write 'T' if the statement is true and 'F' if the statement is false. e RT involves one signal and more than one possible response.
	<ul><li></li><li></li><li></li><li></li><!--</th--><th>true false</th></ul>	true false
2)	React	ion time and movement time measure the same aspect of performance.
	<ul><li></li><li></li><li></li><li></li><!--</td--><td>true false</td></ul>	true false
	erson is	tor task involves having a person watch a screen that flashes multi-colored lights. instructed to press a button as quickly as possible when the color blue flashes on his task is examining the individual's discrimination RT.
	<ul><li></li><li></li><li></li><li></li><!--</td--><td>true false</td></ul>	true false
4)	Const	ant error (CE) refers to a person's performance bias during a series of trials.
	<ul><li></li><li></li><li></li><li></li><!--</td--><td>true false</td></ul>	true false
5) accura		l error (RE) would be the appropriate general accuracy measure to assess the golf putt.
	<ul><li></li><li></li><li></li><li></li><!--</td--><td>true false</td></ul>	true false
6)	Root-	mean-square error (RMS) is typically used to measure accuracy in discrete skills.
	<ul><li></li><li></li><li></li><li></li><!--</td--><td>true false</td></ul>	true false

Kinematics studies how force influences motion.

**7**)

	0	true
	<b>o</b>	false
8)	When	a performance score is recorded as m/sec <sup>-1</sup> , the performance measure is velocity.
	<b>o</b>	true
	0	false
9)	During	g REM sleep you would expect a person's EEG to show alpha waves.
	<b>o</b>	true
	0	false
10)	TMS i	nvolves directing a short burst of magnetic waves at a specific area of the brain
cortex	in orde	r to temporarily activate that area.
	0	true
	0	false
11)	If vou	move your two arms forward and backward several times at the same time, the
,		ship between them is 0 degrees.
	<b>o</b>	true
	<ul><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li></li><li><!--</td--><td>false</td></li></ul>	false
12)	The tw	vo legs are 180 degrees out of phase during running.
ŕ		
	<u> </u>	true
	<b>o</b>	false
		CHOICE - Choose the one alternative that best completes the statement or
answe	rs the c	uestion.

Which of the following would be considered a performance outcome measure?

**13**)

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
- **14**) 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
  - D) The joint torque at the knee just prior to take off during a jump
- 15) Which two events mark the beginning and the end of the interval known as reaction time?
  - A) Warning signal and stimulus signal
  - B) Stimulus signal and initiation of the response
  - C) Stimulus signal and the completion of the response
  - D) Warning signal and the initiation of the response
- **16)** When RT is fractionated, the interval that represents the time it takes to receive and transmit information from the environment is referred to as the:
  - A) Premotor time
  - B) Motor time
  - C) Discrimination time
  - D) Response time
- **17**) An individual must respond to only one of several signals presented in this type of reaction time.

	A) Simple RT
	B) Choice RT
	C) Discrimination RT
	D) Serial RT
18) drops	A physical therapist is helping a stroke patient relearn how to hold a fork. The patient the fork five out of the ten trials. The patient is having a
лорз	the fork five out of the ten trials. The patient is having a
	A) Bias problem
	B) Constant error
	C) Consistency problem
	D) Temporal accuracy problem
19)	This error measure evaluates <u>performance consistency</u> during a series of trials.
	A) AE
	B) CE
	C) VE
	D) E
20)	This error measure evaluates overall accuracy during a series of trials.
-0)	overall accuracy during a period of thais.
	A) AE
	B) CE
	C) VE
	D) RE
21)	To determine muscle activation patterns, this measurement method could be used.
21)	To determine musere activation patterns, this measurement method could be used.

	A) EMG
	B) EEG
	C) Kinetics
	D) Kinematics
22)	The change in spatial position of a limb is called:
	A) Displacement.
	B) Velocity.
	C) Acceleration.
	D) Linear motion.
23)	<u>Displacement</u> , <u>velocity</u> , and <u>acceleration</u> are measures of motion.
	A) Kinetic
	B) Kinematic
	C) Force
	D) Angular motion
24)	What do angle-angle diagrams examine?
	A) How fast a person moves between two points
	B) The relationship between two joints during movement
	C) Changes in acceleration
	D) Movement kinetics
25)	The term <u>kinetics</u> refers to motion caused by

	A)	Velocity
	B)	Angular acceleration
	C)	Force
	D)	Movement
<b>26</b> ) follov		e measure of muscle activity that detects the lateral displacement of a muscle's belly maximal percutaneous neuromuscular stimulation is referred to as:
	C	•
	A)	Electromyography (EMG)
	B)	Whole muscle mechanomyography (wMMG)
	C)	Electroencephalography (EEG)
	D)	Near infrared spectroscopy (NIRS)
27)	Nea	ar infrared spectroscopy (NIRS) can be used to measure activity in the:
	A)	Brain
	B)	Muscles
	C)	Brain and muscles
	D)	None of the above
28)	EE	G recordings will show waves when the cerebral cortex is active.
	A)	Alpha
	B)	Beta
	C)	Theta
	D)	Delta
<b>29</b> )		as brain activity measurement technique realigns hydrogen atoms in the body and mager 2D and 3D images of the brain.
PIOVI	ac cic	and 3D mages of the ordin.

	B) PET
	C) EMG
	D) fMRI
<b>30</b> ) (MEP	What brain recording technique allows researchers to elicit a motor evoked potential
(1,122)	, ·
	A) EEG
	B) fMRI
	C) PET
	D) TMS
	IN THE BLANK. Write the word or phrase that best completes each statement or
answe 31)	The interval of time between the initiation and completion of a movement is called
31)	
32)	A person had the following error scores for a series of 5 trials: +5, -3, +8, +18, -6. The
averag	ge AE score is
33)	Variable error is an indicator of a person's performance when performing a
skill tl	nat requires hitting a target.
34)	The kinematic measure of motor performance that describes the speeding up and slowing
down	of a movement is called
35)	The method of recording electrical activity in the muscles during movement is called
	·

A) EEG

<b>36</b> ) you w	If you want to describe the movement of an object in a straight line, the type of motion could describe is referred to as
<b>37</b> ) movir	Force can be calculated from the kinematics of a movement if you know the mass of the ng object and the of the movement.
38)	The rotary force of body segments around their joints axes is known as joint
39)	The brain activity measurement technique that shows blood flow in the brain is known as
	The calculation of provides an objective measure of the coordination en two limbs or limb segments by comparing the specific location of each limb or limb ent in one cycle of a cyclic movement.

## **Answer Key**

Test name: Magill 2

- 1) FALSE
- 2) FALSE
- 3) TRUE
- 4) TRUE
- 5) TRUE
- 6) FALSE
- 7) FALSE
- 8) TRUE
- 9) FALSE
- 10) FALSE
- 11) TRUE
- 12) TRUE
- 13) A
- 14) D
- 15) B
- 16) A
- 17) C
- 18) C
- 19) C
- 20) A
- 21) A
- 22) A
- 23) B
- 24) B
- 25) C
- 26) B

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- 27) C
- 28) B
- 29) D
- 30) D
- 31) Movement time
- 32) 8
- 33) [consistency, Also acceptable, variability]
- 34) acceleration
- 35) [EMG, or electromyography]
- 36) linear
- 37) acceleration
- 38) torque
- 39) [PET, or Positron Emission Topography]
- 40) [relative phase, or continuous relative phase]