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Courses » Mechanics of Human Movement

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# Unit 11 - Week 9

## Course outline

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Pre-requisite

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Week 9

- Human Gait Terminologies
- Characteristics of Normal Gait Part I
- Characteristics of Normal Gait Part II
- Week 9 - Lecture Notes
- WEEK 9 -

## Assignment 9

The due date for submitting this assignment has passed.  
As per our records you have not submitted this assignment. **Due on 2018-10-03, 23:59 IST.**

1) Which of the following is true for running? **1 point**

- While running the GRF traces the butterfly curve similar to that in walking
- Running does not involve a double support phase
- Stance phase is longer than swing phase for running
- Gait is always asymmetric during running

**No, the answer is incorrect.**  
**Score: 0**

**Accepted Answers:**  
*Running does not involve a double support phase*

2) Step width is a measure of the ----- separation of the foot **1 point**

- Mediolateral
- Proximal-distal
- Anterior-posterior
- longitudinal

**No, the answer is incorrect.**  
**Score: 0**

**Accepted Answers:**  
*Mediolateral*

3) The internal rotation of the thigh can be observed best in the **1 point**

- Coronal Plane
- Sagittal plane

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4) Walking speed = -----

1 point

- Cadence \* Stride length /120
- 120 \* Stride length /Cycle time
- 120 \* Cycle time /Cadence
- Cadence \* Stride length /Cycle time

No, the answer is incorrect.

Score: 0

Accepted Answers:

*Cadence \* Stride length /120*

5) Stance phase is approximately \_\_\_\_\_ of normal gait cycle.

1 point

- 40%
- 60%
- 50%
- 30%

No, the answer is incorrect.

Score: 0

Accepted Answers:

*60%*

6) What is the stride length of a person walking at the speed of 1 m/s and cadence of 120 steps/min?

1 point

- 0.5 m
- 1.2 m
- 1.5 m
- 1 m

No, the answer is incorrect.

Score: 0

Accepted Answers:

*1 m*

7) The maximum knee flexion is observed during \_\_\_\_\_ phase of walking.

1 point

- Initial swing
- Terminal stance
- Terminal swing
- Pre-swing

No, the answer is incorrect.

Score: 0

Accepted Answers:

*Initial swing*

8) A gait cycle is made up of \_\_\_\_\_

1 point

- One step length
- Two step lengths
- One stride length
- Two stride lengths

No, the answer is incorrect.

Score: 0

Accepted Answers:

*Two step lengths*

*One stride length*

9) Which phenomenon explains the M-shape of the GRF in the butterfly diagram? **1 point**

- The movement of the COM in the transverse plane
- The upward and downward acceleration of the COM
- The forward and backward acceleration of the COM along the direction of progression
- The action of gravity

No, the answer is incorrect.

Score: 0

Accepted Answers:

*The upward and downward acceleration of the COM*

10) What is the stride time of a person walking with step length of 0.6m and speed of 0.8 m/s? **1 point**

- 0.5 s
- 0.67 s
- 1.5 s
- 1.2 s

No, the answer is incorrect.

Score: 0

Accepted Answers:

*1.5 s*

11) Which of the following events happen in single limb support? **1 point**

- Mid stance
- Terminal stance
- Initial contact
- Loading response

No, the answer is incorrect.

Score: 0

Accepted Answers:

*Mid stance*

*Terminal stance*

12) Pre-swing phase of one limb corresponds to **1 point**

- Terminal stance of other limb
- Initial contact of the other limb
- Mid stance of the other limb
- Loading response of the other limb

No, the answer is incorrect.

Score: 0

Accepted Answers:

*Loading response of the other limb*

13) Which of the following phases involve the ankle rocker? **1 point**

- Terminal Stance
- Mid stance
- Loading response
- Pre-swing

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*Mid stance*

14) The maximum ankle plantarflexion happens during \_\_\_\_\_ phase of normal walking. **1 point**

- Mid swing
- Terminal swing
- Initial swing
- Mid stance

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*Initial swing*

15) The distance between successive contacts of the same limb with the ground is called as \_\_\_\_\_. **1 point**

- Step length
- Stride length
- Cadence
- Double support

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*Stride length*

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