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Courses » Mechanics of Human Movement

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Unit 14 - Week 12

Course outline

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Week 12

Design Considerations: Prosthesis and Orthosis

Design Considerations:

Assignment 12

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment. **Due on 2018-10-24, 23:59 IST.**

1) An assistive device used as a replacement for a missing limb is known as: **1 point**

- Orthosis
- Exoskeleton
- Prosthesis
- Brace

No, the answer is incorrect.
Score: 0

Accepted Answers:
Prosthesis

2) An orthosis is an assistive device used for: **1 point**

- Support
- Replacement of missing limb
- Communication
- Correction

No, the answer is incorrect.
Score: 0

Accepted Answers:
Support
Correction

3) In a prosthetic knee joint, stability in stance can be achieved through **1 point**

- Torque absorber

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WEEK 12 -
FEEDBACK -
Mechanics of
Human
Movement

Quiz :
Assignment 12

VIDEO
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ce De

Geometry of the joint

Frictional braking

4) In a prosthetic knee joint, automatic adaptability to variable cadence can be achieved through **1 point**

- Torque absorber
- Hydraulic or pneumatic units
- Microprocessor control
- Frictional control

No, the answer is incorrect.

Score: 0

Accepted Answers:

Hydraulic or pneumatic units

Microprocessor control

5) The function of the human knee joint during walking is best approximated by a **1 point**

- Hinge joint
- Condylloid joint
- Ellipsoid joint
- Spherical joint

No, the answer is incorrect.

Score: 0

Accepted Answers:

Hinge joint

6) Initiation of push off is comparatively easy when the load line passes _____ to the knee joint center. **1 point**

- Anterior
- Medial
- Posterior
- Lateral

No, the answer is incorrect.

Score: 0

Accepted Answers:

Posterior

7) While walking with a locked knee orthosis, the user must use _____ to clear the ground while the orthotic leg is in swing phase. **1 point**

- Steppage
- Knee extension
- Hip flexion
- Circumduction

No, the answer is incorrect.

Score: 0

Accepted Answers:

Circumduction

8) Geometric stance stability is achieved when the load line passes _____ to the knee joint center. **1 point**

- Anterior
- Posterior
- Medial
- Lateral

No, the answer is incorrect.

Score: 0

Accepted Answers:

Anterior

9) What could be secondary consequences of prolonged sitting for wheelchair users? **1 point**

- Weight loss
- Pressure Sores
- Muscle contractures
- Increased metabolism rate

No, the answer is incorrect.

Score: 0

Accepted Answers:

Pressure Sores

Muscle contractures

10) Which of the following are the design considerations for a prosthetic knee during swing phase? **1 point**

- Stabilize the knee
- Assist extension of the shank
- Assist in ground clearance
- Accommodate different walking speeds

No, the answer is incorrect.

Score: 0

Accepted Answers:

Assist extension of the shank

Assist in ground clearance

Accommodate different walking speeds

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