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Courses » Mechanics of Human Movement

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Unit 13 - Week 11

Course outline

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Pre-requisite

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Week 11

- Pathological Gait Part III
- Introduction to Assistive Devices for Mobility
- Design Considerations

Assignment 11

The due date for submitting this assignment has passed. As per our records you have not submitted this assignment. **Due on 2018-10-17, 23:59 IST.**

1) A person with knee flexion contracture will possibly exhibit: **1 point**

- Shorter strides
- Stamping
- Progressive crouch gait
- Circumduction

No, the answer is incorrect.
Score: 0

Accepted Answers:
Shorter strides
Progressive crouch gait

2) During the initial contact, a person walks with foot slapping on the floor. Where is the potential muscle weakness? **1 point**

- In ankle plantarflexors
- In quadriceps
- In ankle dorsiflexors
- In hamstrings

No, the answer is incorrect.
Score: 0

Accepted Answers:
In ankle dorsiflexors

3) Talipes Equinus is a disorder caused due to possible **1 point**

- Contracture of gastrocnemius

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Quiz :
Assignment 11

Week 12

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Accepted Answers:*Contracture of gastrocnemius**Contracture of soleus**Weakness in tibialis anterior*4) Which of the following is NOT a function of a prosthetic foot? **1 point**

- Attenuation of shock at heel strike
- Posterior progression of the center of pressure
- Release of stored energy for the swing phase
- Provide sufficient friction at the foot-ground interface

No, the answer is incorrect.**Score: 0****Accepted Answers:***Posterior progression of the center of pressure*5) Talipes Calcaneus is a disorder caused due to **1 point**

- Spasticity in tibialis anterior
- Weakness in hamstrings
- Weakness in triceps surae
- Spasticity in quadriceps

No, the answer is incorrect.**Score: 0****Accepted Answers:***Spasticity in tibialis anterior**Weakness in triceps surae*6) A prosthetic foot generally consists of **1 point**

- Cosmetic foam
- Keel
- Socket
- Pylon

No, the answer is incorrect.**Score: 0****Accepted Answers:***Cosmetic foam**Keel*7) _____ is commonly known as Club foot deformity **1 point**

- Talipes Calcaneus
- Genu Valgus
- Genu Recurvatum
- Talipes Equinovarus

No, the answer is incorrect.**Score: 0****Accepted Answers:***Talipes Equinovarus*8) Genu Valgum (valgus) corresponds to _____ appearance. **1 point**

- Bow legged
- Knock knee
- Back knee
- Normal knee

No, the answer is incorrect.

Score: 0

Accepted Answers:

Knock knee

9) Which of the following are components of a below-knee modular prosthesis? **1 point**

- Foot
- Knee
- Socket
- Extension assist

No, the answer is incorrect.

Score: 0

Accepted Answers:

Foot

Socket

10) In the below figure, the heel of a prosthetic foot is shown to be compressed. What are the possible direct functions of this event? **1 point**

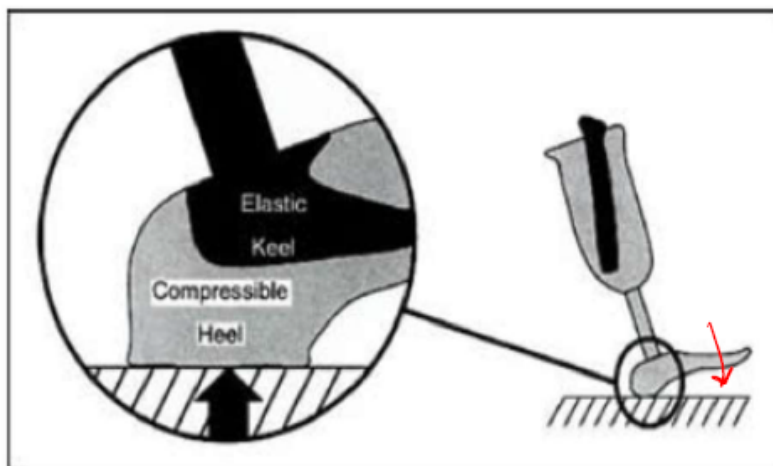


Figure 6.
Heel compression of a prosthesis during loading response.

- Absorption of shock at heel strike
- Transfer of weight onto the prosthesis
- Storage of energy into the prosthetic foot
- Assistance in push off

No, the answer is incorrect.

Score: 0

Accepted Answers:

Absorption of shock at heel strike

Transfer of weight onto the prosthesis

Storage of energy into the prosthetic foot

11) In the below figure, the keel of a prosthetic foot is shown to be loaded during terminal stance. What are the direct functions of this event?

1 point

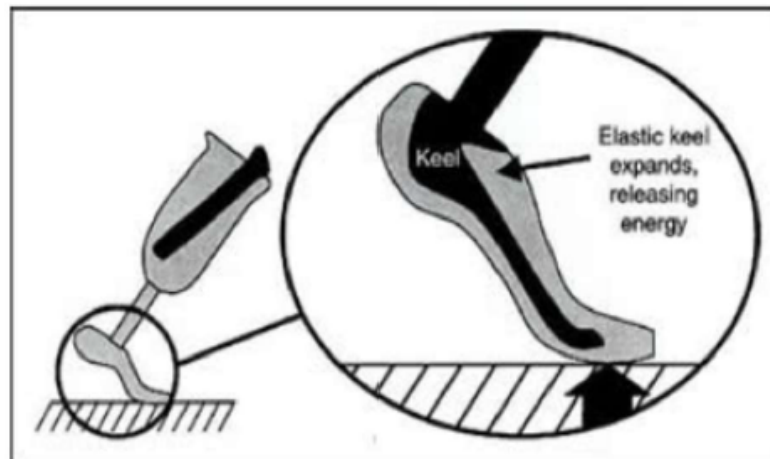


Figure 7.
Keel loading of a prosthesis during terminal stance.

- Storage of energy during loading
- Assistance in push off
- Attenuation of shock during loading response
- Control of pendular swing

No, the answer is incorrect.

Score: 0

Accepted Answers:

Storage of energy during loading

Assistance in push off

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