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
- [ ] Geometry of the joint
- [ ] Flexion assist
- [ ] Frictional braking

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

- Geometry of the joint
Geometry of the joint

4) In a prosthetic knee joint, automatic adaptability to variable cadence can be achieved through
   - 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
   - Hinge joint
   - Condyloid 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.
   - 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.
   - 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.

   - Steppage
   - Knee extension
   - Hip flexion
   - Circumduction
   
   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   - Circumduction
9) What could be secondary consequences of prolonged sitting for wheelchair users?  
- 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?  
- 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