

Direction

- 1) The lack of vision negatively affected which physical mode?
 - a. Walking
 - b. Jogging
 - c. Both walking and jogging
 - d. Jogging more than walking
- 2) What was the main finding of the study by Nakamura on the step time parameters of gait?
 - a. There was no effect on walking speed
 - b. Shorter step length and reduced duration of stance
 - c. Longer step length and reduced duration of stance
 - d. Shorter step length and prolonged duration of stance
- 3) Which disorder is typically observed in blind people?
 - a. Skeletal malformation and muscle imbalance
 - b. Muscle imbalance
 - c. Skeletal malformation
 - d. Only the visual sense is affected, but the movement pattern is normal
- 4) Which of the following is commonly used to calculate the energy cost during exercise?
 - a. Physiological cost index (PCI)
 - b. CO₂
 - c. O₂
 - d. Heart rate
- 5) What is the correct formula to calculate PCI?
 - a. $PCI = \frac{\text{Walking HR} - \text{Resting HR}}{\text{Walking Speed}}$
 - b. $PCI = \frac{\text{Resting HR} - \text{Walking HR}}{\text{Walking Speed}}$
 - c. $PCI = \frac{\text{Walking HR} + \text{Resting HR}}{\text{Walking Speed}}$
 - d. $PCI = \frac{\text{Walking HR} - \text{Resting HR}}{\text{Number of steps}}$
- 6) What is the prevalence rate of postural deformities in blind people?
 - a. 80%
 - b. 60%
 - c. 40%
 - d. 20%
- 7) Impairment of the visual receptors influences which of the following?
 - a. Spatial orientation
 - b. Balance
 - c. Motor skills
 - d. All of the above
- 8) Which type of walking track was used to conduct the test procedure?
 - a. Circular indoor walking track
 - b. Oval-shaped indoor walking track
 - c. Circular outdoor walking track
 - d. Oval-shaped outdoor walking track
- 9) How were the participants grouped in the present study?
 - a. Blind and sighted group of students
 - b. Two groups of sighted students
 - c. Two groups of blind students
 - d. Young and adult group of blind students

- 10) Why blind students took a shorter step length?
- To reduce the energy consumption of walking and jogging
 - To increase the speed of walking and jogging
 - To overcome muscle stiffness
 - To overcome gait uncertainty
- 11) What was the outcome of the comparison between the PCI of the blind and sighted students?
- Blind students spent less energy
 - Blind students spent more energy
 - Blind students spent an equal amount of energy
 - Blind students spent at least as much or more energy
- 12) What was the outcome of the comparison between the gait kinematics of the blind and sighted students?
- Blind students achieved higher gait kinematics
 - Blind students achieved higher or equal gait kinematics
 - Blind students achieved lower or equal gait kinematics
 - Blind students achieved lower gait kinematics
- 13) What is the effect of vision impairment?
- Reduced task-specific energy consumption
 - Increased task-specific energy consumption
 - No effect on task-specific energy consumption
 - Disability to walk
- 14) Which of the following can be utilized to study the efficiency of the locomotor system?
- PCI
 - Gait kinematics
 - Neither PCI nor gait kinematics
 - Both PCI and gait kinematics
- 15) Which of the following was affected by the impairment of visual receptors?
- Spatial orientation
 - Balance
 - Motor skills
 - All of the above
- 16) Which physical activity was used to calculate PCI?
- Cadence
 - Step length
 - Speed of walking
 - Number of steps per minute
- 17) Which of the following was observed in the blind student group?
- Decreased test duration
 - Increased test duration
 - Longer step length
 - Higher mean walking speed
- 18) What was the reason for a high walking cadence in the blind student group?
- Longer step length
 - Shorter step length
 - Equal step length
 - Higher speed of walking
- 19) What was the outcome of the comparison between the blind and sighted students in terms of PCI_w and PCI_j ?
- PCI_w and PCI_j were significantly higher in blind students
 - PCI_w and PCI_j were significantly lower in blind students
 - The difference was insignificant
 - PCI_w was significantly higher, but PCI_j was significantly lower in blind students.

- 20) What was the main limitation of the study?
- a. The use of an indoor walking track
 - b. The use of an outdoor walking track
 - c. Limited participation of sighted students
 - d. Limited participation of blind students