

Mcqs In Biomechanics 1st Edition

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Mcqs In Biomechanics 1st Edition

100 Important MCQ | Biomechanics | Part: 1 | - 100 Important MCQ | Biomechanics | Part: 1 | by Y MCQ by Yshak 8,273 views 2 years ago 9 minutes, 50 seconds - Biomechanics, is the science of movement of a living body, including how muscles, bones, tendons, and ligaments work together ...

Introduction

Q1. The sagittal plane, or longitudinal plane, is an anatomical plane which divides the body into right and left parts. The plane may be in the center of the body and split it into two halves or away from the midline and split it into unequal parts.

Q2. According to David magee textbook, 20-30° in scapular plane.

Q3. A third order lever is the one which has its effort between the fulcrum and the load. Such levers do not have good mechanical advantages.

Q4. the tensor fascia latae (TFL) muscle at the hip becomes overactive. The TFL connects into the non-contractile IT band which attaches just below the knee and when it is tight or overactive the tension can translate and cause friction and irritation of the tissues in this area, which can causes knock knee.

Q5. The skull acts as the lever arm. Pivot is the place where our skull meets the top of our spine. And the neck muscles at the back of the skull provide the force (effort) to lift our head up against the weight of the head (load). When the neck muscles relax, our head nods forward.

Q6. The close packed position of the second to fifth metacarpophalangeal joints is full flexion, while the close packed position of the first metacarpophalangeal joint is maximum opposition.

Q7. It is the kinematic relationship between lumbar spine and hip joints during sagittal plane movement. The first part of bending forward consists of lumbosacral flexion followed by anterior tilting of pelvis at hip joints.

Q8. Inability to lift the foot while walking due to the weakness of muscles that cause dorsiflexion of the ankle joint.(weakness or paralysis of your anterior tibialis muscle).

Q9. Coxa valga is a deformity of the hip where the angle formed between the head and neck of the femur and its shaft is increased, usually above 135 degrees.

Q10. In the sagittal plane, the gravity line is located: anterior to the knee joint's lateral axis.

Q11. Explained within the question and answer.

Q12. Second order levers are mechanisms which feature the input force and output force on the same side of the fulcrum, with the input force furthest from the fulcrum.

Q13. Open kinetic chain - During knee extension, tibia glides anteriorly on femur. More precisely, from 20° knee flexion to full extension, tibia rotates externally. During knee flexion, tibia glides posteriorly on femur and from full knee extension to 20° flexion, tibia rotates internally.

Q14. the main function of the triceps surae is to perform plantar flexion of the foot at the ankle joint, allowing the heel to elevate against gravity.

Q15. Explained within the question and answer.

Q16. Pulley is a simple mechanical machine and consists of a wheel that turns readily on the axle. the wheel is usually grooved for a rope or a wire cable.
Q17. Explained within the question and answer.
Q18. Explained within the question and answer.
Q19. Patella alta is a positional fault defined most simply as the superior displacement of the patella within the trochlear groove of the femur.
Q20. Weakness of biceps femoris muscle cause petalla weakness.
Q21. Pronation twist When both the hindfoot and the transverse tarsal joints are locked in supination, the adjustment of forefoot position must be left entirely to the TMT joints. With hindfoot supination, the forefoot tends to lift off the ground on its medial side and press into the ground on its lateral side
Q22. Explained within the question and answer.
Q23. In a Class Three Lever, the Force is between the Load and the Fulcrum. If the Force is closer to the Load, it would be easier to lift and a mechanical advantage.
Q24. Böhler angle is the angle between two lines tangent to the calcaneus on the lateral radiograph.
Q25. The resting position of the joint is approximately 25° of flexion, and the capsular pattern is flexion more limited than extension.

MCQ Khatri Biomechanics Part1 - MCQ Khatri Biomechanics Part1 by Dr. Subhash Khatri 7,310 views 3 years ago 10 minutes, 48 seconds - Biomechanics,/Kinesiology.

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Anatomical pulleys are a Increase the magnitude b Change the direction c Decrease the moment arm d Decrease the magnitude

Which of the following muscles are stance phase muscles a Quadriceps b Hamstring muscles c Tibialis anterior d Peroneus longus

Tightness of tensor fascia latae causes: a Adduction of the hip b Extension of the hip c Knocking (genu valgum) of the knee d Plantar flexion of the ankle

Loss of active knee extension occurs in the injury of which of the following nerves a Sciatic b Obturator c Femoral d Radial

During bending forward lumbar flexion is followed by a Hip flexion b Posterior pelvic tilt c Anterior pelvic tilt d Pelvic hike

In high steppage gait there is paralysis of a Dorsiflexors of ankle b Plantarflexors of ankle c Extensors of knee joint d Flexors of hip joint

A pathological increase in neck shaft angle of femur is called a.cobbs angle b.coxa vara C.coxa valga d.anteversion

a.gluteus medius gait b. Antalgic gait c. Hysteric gait d. Painful gait

Which assistive device allows for a two-point, three-point, and four- point gait pattern? a Straight cane b Walker c Quad cane d Axillary crutches

Which type of gait pattern would be most appropriate for a patient who exhibits unilateral lower extremity weakness a Four-point b Two-point c Three-point d Swing-through

During flexion of the knee the tibia moves a. Medially b. Anteriorly c. Laterally d. Posteriorly

Passive or active tension in the triceps surae checks a Dorsiflexion b Plantar flexion c Inversion d Eversion

A sensory examination reveals light touch impairment to the buttock, thigh, and posterior leg the corresponding dermatome should be recorded as a L1 b L2 c L4

In painful arc there is pain at what degrees of elevation A.0-60° B.60-120° C.120-180° D.Above 80

Weakness in the would make it extremely difficult to ambulate on crutches a Medial deltoid b Erector spinae c Latissimus dorsi d Rhomboids

If length of patella tendon (LT) is greater than the length of patella (LP)seen in a. Patella baja b. Patella alta c. Patella neutral d. None of the above

In genu recurvatum patella is a. Stable b. Unstable c. Recurring more compressiveforce d. Both a and b

During pronation twist, the calcaneum undergoes a Supination b Pronation c Abduction d Adduction Shear force is the force applied to the contacting system. a Perpendicular b Parallel c Oblique d Both A and B

Osteophytes developing at the joint at Luschka characteristically compressed spinal nerves at a Intervertebral foramen b Anterior part of body c Posterior part of body d Paradural areas

The muscle paralysis causes flexion will diminish in strength and limited range is achieved to about 130° 140° of flexion. A.serratus anterior B.supraspinatus anterior C.teres minor D.pectoralis minor

Presence of muscle fibrillation indicates which of the following a Hyperexcitability of motor unit b High neural discharge rate c Loss of muscle innervation d Upper motor neuron defect

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Most-Important Step Before any Procedure =%Most-Important Step Before any Procedure =%
~~Dr.Dushyant Chouhan~~

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Identify the muscle at the tip of the pointer

Identify the ligament at the tip of

Identify the structure at the tip of

Identify the functionat

Identify the structural

Identify the functional

Identify the specific type of joint

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Olfactory nerve is related to A. Sight

Cranial nerve 2 is related to A. Hearing

Largest part of human Brain is A. Cerebrum B. Cerebellum

Pace maker of a normal heart is A. AV node

correct A. Cataract

esophagus A. Left atrium

96. Pair of cranial nerves are A. 10

with A. Spirometer

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Intro

Overview

What is Kinesiology?

What is Biomechanics?

Sub-branches of Biomechanics

Goals of Sport and Exercise Biomechanics

Qualitative vs. Quantitative

What is anatomical reference position?

Directional terms

Reference axes

What movements occur in the frontal plane?

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