

Unit 14 - Week 12- BioMechanics

Course outline

How does an NPTEL online course work?

Week 0

Week 01 - Introduction and Overview of Ergonomics

Week 02- Work Physiology

Week 03 - Physical ergonomics and introduction to Cognitive ergonomics

Week 04- Cognitive Ergonomics

Week 05 - Cognitive Ergonomics (Continued)

Week 06 - Physical Work Environment

Week 07 - Tools, Techniques & Research Methodology

Week 08- Work Study

Week 09- Manual Work System

Week 10- Industrial Accidents and Injuries

Week 11- Job evaluation in organizational ergonomics

Week 12- BioMechanics

Lecture 50- Biomechanics-2

Lecture 51- Applications of Biomechanics

Lecture 52- Problem solving -1

Lecture 53- Problem solving -2

Lecture 54- Problem solving-3

Quiz : Assignment_12

Assignment_12 Solution

Applied Ergonomics: Feedback For Week 12

Text Transcripts

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Assignment_12

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2020-04-22, 23:59 IST.

1) _____ is the unit of _____ and _____.

1 point

- Pascal, Tension, Strain.
 Pascal, Pressure, Stress.
 Pascal, Tension, Stress.
 Pascal, Pressure, Tension.

No, the answer is incorrect.
Score: 0

Accepted Answers:
Pascal, Pressure, Stress.

2) Which of the following is unit of weight?

1 point

- ton.
 grams.
 pounds.
 All of these

No, the answer is incorrect.
Score: 0

Accepted Answers:
All of these

3) While throwing a ball, the forces acting on the ball is studied by _____ and the motion is studied by _____.

1 point

- Kinetics and kinematics.
 Kinetics and statics.
 Statics and dynamics.
 Kinematics and kinetics.

No, the answer is incorrect.
Score: 0

Accepted Answers:
Kinetics and kinematics.

4) Which of the following types of force exerts a pulling effect on the body?

1 point

- shear
 tension
 compression
 all of these.

No, the answer is incorrect.
Score: 0

Accepted Answers:
tension

5) Biomechanics refers to:

1 point

- the study of movement mechanics.
 the study of biological organisms.
 the study of human movement.
 None of these

No, the answer is incorrect.
Score: 0

Accepted Answers:
None of these

6) Which of the following would not be measured in an anthropometric study of a person?

1 point

- Persons body part size and dimensions.
 Body weight.
 Food consumption.
 Shape of the body parts.

No, the answer is incorrect.
Score: 0

Accepted Answers:
Food consumption.

7) Biomechanical research does not contribute to the following?

1 point

- Prevention of injuries
 Equipment design
 Enhanced physical performance
 None of these

No, the answer is incorrect.
Score: 0

Accepted Answers:
None of these

8) _____ is the study of forces acting on system in motion.

1 point

- statics
 anthropometrics
 dynamics
 plyometrics

No, the answer is incorrect.
Score: 0

Accepted Answers:
dynamics

9) Match the following axis with their respective units:

1 point

A. Frontal axis, B. Sagittal/Vertical axis, C. Transversal axis

i. X, ii. Z, iii. Y

- B - i, C - ii, A - iii
 A - i, C - ii, B - iii
 A - i, B - ii, C - iii
 C - i, B - ii, A - iii

No, the answer is incorrect.
Score: 0

Accepted Answers:
A - i, C - ii, B - iii

10) Which of the following studies motion of point or body without considering forces moving them?

1 point

- kinematics
 cybernetics
 anthropometrics
 kinetics

No, the answer is incorrect.
Score: 0

Accepted Answers:
kinematics