

# Unit 4 - Week 02- Work Physiology

## Course outline

How does an NPTEL online course work?

Week 0

Week 01 - Introduction and Overview of Ergonomics

Week 02- Work Physiology

Lecture 05

Lecture 06

Lecture 07

Quiz : Assignment\_02

Feedback for week 2

Assignment\_02 Solution

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

Text Transcripts

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## Assignment\_02

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

**Due on 2020-02-12, 23:59 IST.**

1) Name the process of gaseous exchange in the body.

1 point

- Lymphatic system  
 Respiration  
 Cardiovascular system  
 Respiratory system

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
Respiration

2) For a healthy person, how much amount of energy expenditure requires an average of one liter of O<sub>2</sub>?

1 point

- 2.8 KCal  
 4.8 KCal  
 8.8 KCal  
 5.8 KCal

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
4.8 KCal

3) Which of the following is not a part of Respiratory System?

1 point

- Lungs  
 Heart  
 Nasal Cavity  
 Alveoli

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
Heart

4) Which nervous system controls skeletal muscle?

1 point

- Sympathetic  
 Parasympathetic  
 Afferent  
 Somatic

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
Somatic

5) What is chemical formula of CP (creatine phosphate)?

1 point

- C<sub>4</sub>H<sub>10</sub>N<sub>3</sub>PO<sub>5</sub>  
 C<sub>6</sub>H<sub>8</sub>N<sub>3</sub>PO<sub>5</sub>  
 C<sub>4</sub>H<sub>10</sub>N<sub>5</sub>PO<sub>7</sub>  
 C<sub>8</sub>H<sub>10</sub>N<sub>5</sub>PO<sub>3</sub>

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
C<sub>4</sub>H<sub>10</sub>N<sub>3</sub>PO<sub>5</sub>

6) Which of the following is an anthropometric design principle?

1 point

- Design for extreme users  
 Design for average user  
 Design for adjustability  
 All of the above

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
All of the above

7) Which of the following is NOT the function of the respiratory system?

1 point

- Regular blood pH  
 Helps in gaseous exchange  
 Protection against blood loss  
 Contains receptors for sense of smell

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
Protection against blood loss

8) The branch of science deals with blood, blood forming tissues and its disorders is called

1 point

- Hemopoiesis  
 Cardiovascular system  
 Plasmology  
 Hematology

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
Hematology

9) Blood helps in transportation of the following components, except one, identify that?

1 point

- Hormone  
 Oxygen  
 Heat  
 Lymph

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
Heat

10) Which Metabolism rate is not included in Energy Expenditure?

1 point

- Basal MR  
 Digestive MR  
 Activity MR  
 All of the above

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
Digestive MR