

# Unit 3 - Week 01

## Course outline

How does an NPTEL online course work?

### Assignment 0

#### Week 01

- Lecture 01: Bioenergetics of Life Processes: An Overview
- Lecture 02: Bioenergetics: Origin of life
- Lecture 03: Iron-Sulfur world
- Lecture 04: Evolution of complex cellular membranes
- Lecture 05: Charge transfer across membrane: Key terms

#### Quiz : Assignment 1

- Feedback For Week 1

- Assignment 1 - Solutions

#### Week 02

#### Week 03

#### Week 04

#### Text Transcripts

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## Assignment 1

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

**Due on 2020-03-04, 23:59 IST.**

1) Which of these elements is represented by the symbol 'Fe'

1 point

- Flourine
- Iron
- Phosphorus
- Francium

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*Iron*

2) Mass of iron and sulfur is \_\_\_\_\_ and \_\_\_\_\_ respectively.

1 point

- 26, 16
- 16, 26
- 56, 32
- 32, 56

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*56, 32*

3) Which of these is a necessary component of organic compounds

1 point

- Iron
- Sulfur
- Carbon
- Lithium

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*Carbon*

4) Which of these elements is necessarily absent in anaerobic world

1 point

- Iron
- Sulfur
- Nitrogen
- Oxygen

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*Oxygen*

5) Ferredoxin was first purified in 1962 from an \_\_\_\_\_

1 point

- anaerobic bacterial source
- aerobic animal source
- anaerobic animal source
- aerobic bacterial source

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*anaerobic bacterial source*

6) Oxidation state of iron in Fe<sub>2</sub>O<sub>3</sub> and FeS<sub>2</sub> and FeS are

1 point

- 1, 2, 3
- 3, 2, 2
- 3, 2, 3
- 3, 2, 1

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*3, 2, 2*

7) Which of these is a common property of cell membrane

1 point

- Non permeability
- Symmetric structure
- Non replicability
- Lipid bilayer composition

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*Lipid bilayer composition*

8) Potential difference is measured in

1 point

- Metre
- Volts
- Litre
- Angstrom

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*Volts*

9) Electrically, inside of the cell is \_\_\_\_\_ as compared to the outside

1 point

- positive
- negative
- neutral
- similar

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*negative*

10) Loss of electron is \_\_\_\_\_ and gain of electron is \_\_\_\_\_

1 point

- oxidation, oxidation
- reduction, reduction
- oxidation, reduction
- reduction, oxidation

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*oxidation, reduction*