

Unit 2 - Week 1

Course outline

How to access the portal?

Week 1

- Lecture 1 : Importance of metals in biology
- Lecture 2 : Choice, uptake and assembly of metal ions in cells
- Lecture 3 : Control and use of metal ions concentration in biological systems
- Lecture 4 : Metal mediated folding of biopolymers
- Lecture 5 : Study of binding mode of calcium and zinc in proteins

○ Quiz : Assignment 1

○ Assigment 1 solution

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Week 2

Week 3

Week 4

Week 5

Week 6

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Week 8

Weekly Feedback

Text Transcription

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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 2019-08-14, 23:59 IST.

Week 1 Assignment 1

1) Function of Metallochaperone are ?

1 point

- Intracellular transport of metal ions to metalloenzymes
- Intracellular transport of metal ions to metalloprotein
- Transport of metal ions inside-outside of cell
- Binding of protein.

No, the answer is incorrect.

Score: 0

Feedback:

Choose two correct options.

Accepted Answers:

Intracellular transport of metal ions to metalloenzymes

Intracellular transport of metal ions to metalloprotein

2) In bacteria and human, iron mobilizing proteins are?

1 point

- Methanemonooxygenase
- Ferritin
- FecA
- None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

None of the above

3) Ferritin is a...

1 point

- Calcium binding protein
- Iron storage protein
- Iron degrading protein
- Iron transport protein

No, the answer is incorrect.

Score: 0

Feedback:

Choose two correct options

Accepted Answers:

Iron storage protein

Iron transport protein

4) What is the molecular weight of transferrin?

1 point

- 105 kilodalton
- 45 kilodalton
- 95 kilodalton
- 80 kilodalton

No, the answer is incorrect.

Score: 0

Accepted Answers:

80 kilodalton

5) Which iron oxidation state preferred by transferrin while binding for iron?

1 point

- 4
- 2
- 3
- 0

No, the answer is incorrect.

Score: 0

Accepted Answers:

3

6) What are the metalloregulatory protein?

Hint

No, the answer is incorrect.

Score: 0

Accepted Answers:

(Type: String) Which control metal ion concentration

(Type: String) It is a metal ion concentration control protein

(Type: String) Metalloregulatory proteins controls the metal ion concentration in cell

(Type: String) The protein which control the metal ion concentration in cell

0 points

7) Name the active binding sites in transferrin.

Hint

No, the answer is incorrect.

Score: 0

Accepted Answers:

(Type: String) Tyrosine, Tyrocine, Histidine, Aspartate

0 points

8) By weight ~20% of living matter is inorganic?

1 point

- True
- False

No, the answer is incorrect.

Score: 0

Accepted Answers:

False

9) Vit-B12 has Mo-CH3 bond?

1 point

- True
- False

No, the answer is incorrect.

Score: 0

Accepted Answers:

False

10) Gd is used in imaging agent?

1 point

- True
- False

No, the answer is incorrect.

Score: 0

Accepted Answers:

True