

Unit 11 - Week 9

Course outline

How does an NPTEL online course work?

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Week 9

● Lecture 19 : Vitamins and Coenzymes-I

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Week 9 Assignment 9

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

Due on 2020-04-01, 23:59 IST.

1) Which of the following is a component of Coenzyme A? 1 point

- a) Retinol
- b) Pantothenic acid
- c) Pyridoxine
- d) Retinoic acid

- a)
 b)
 c)
 d)

No, the answer is incorrect.
Score: 0

Accepted Answers:
b)

2) Which of the following options about Thiamine is **INCORRECT**? 1 point

- a) The active form of thiamine is cocarboxylase
- b) Thiamine is involved in the transketolase reactions of the triose phosphate pathway
- c) Thiamine is involved in the dehydrogenation of α -keto acids
- d) Magnesium deficiency has been shown to alleviate Thiamine deficiency

- a)
 b)
 c)
 d)

No, the answer is incorrect.
Score: 0

Accepted Answers:
d)

3) Which of the following Vitamins serves as a hormone precursor? 1 point

- a) Vitamin C
- b) Vitamin A
- c) Vitamin D
- d) Vitamin K

- a)
 b)
 c)
 d)

No, the answer is incorrect.
Score: 0

Accepted Answers:
c)

4) In beri beri there will be accumulation of _____ in blood. 1 point

- a) Aceto acetic acid
- b) β -hydroxy butyric acid
- c) Pyruvic acid
- d) Methyl malonic acid

- a)
 b)
 c)
 d)

No, the answer is incorrect.
Score: 0

Accepted Answers:
c)

5) Vitamin B₁₂ is useful in the prevention and treatment of 1 point

- a) pernicious anemia
- b) scurvy
- c) cataract
- d) beri-beri

- a)
 b)
 c)
 d)

No, the answer is incorrect.
Score: 0

Accepted Answers:
a)

6) Which coenzyme is **NOT** involved in the reaction catalyzed by pyruvate dehydrogenase? 1 point

- a) coenzyme A
- b) coenzyme Q
- c) lipoamide
- d) thiamine pyrophosphate

- a)
 b)
 c)
 d)

No, the answer is incorrect.
Score: 0

Accepted Answers:
b)

7) What metal ion is specifically bound by Vitamin B₁₂? 1 point

- a) Cobalt
- b) Copper
- c) Zinc
- d) Iron

- a)
 b)
 c)
 d)

No, the answer is incorrect.
Score: 0

Accepted Answers:
a)

8) The Vitamin riboflavin, which occurs as a yellow pigment in egg yolk and milk becomes 1 point

- a) more deep in color on oxidation and regains its color on reduction with Zn in acid
- b) more deep in color on reduction with Zn in acid and regains its color on re-oxidation
- c) colorless on oxidation and regains its color on reduction with Zn in acid
- d) colorless on reduction with Zn in acid and regains its color on re-oxidation

- a)
 b)
 c)
 d)

No, the answer is incorrect.
Score: 0

Accepted Answers:
d)

9) Vitamin E prevents 1 point

- a) formation of Vitamin D in skin
- b) secretion of superfluous enzymes
- c) keratinisation of epidermal cells
- d) absorption of harmful enzymes

- a)
 b)
 c)
 d)

No, the answer is incorrect.
Score: 0

Accepted Answers:
c)

10) The prosthetic group biotin is a carrier of which type of molecule? 1 point

- a) activated carbon dioxide (CO₂)
- b) ammonia
- c) methyl groups
- d) sulfydryl groups

- a)
 b)
 c)
 d)

No, the answer is incorrect.
Score: 0

Accepted Answers:
a)

11) Which of the following Vitamins provides the coenzyme for reduction reactions in fatty acid synthesis? 1 point

- a) Riboflavin
- b) Niacin
- c) Thiamine
- d) Vitamin B₆

- a)
 b)
 c)
 d)

No, the answer is incorrect.
Score: 0

Accepted Answers:
b)

12) Which of the following is a function of vitamin B₆? 1 point

- a) Carboxylation of pyruvate to oxaloacetate
- b) Synthesis of methionine from homocysteine
- c) Decarboxylation of amino acids to form amine neurotransmitters
- d) Synthesis of methylene tetrahydrofolate

- a)
 b)
 c)
 d)

No, the answer is incorrect.
Score: 0

Accepted Answers:
c)

13) Increased carbohydrate consumption increases the dietary requirement for 1 point

- a) Thiamine
- b) Riboflavin
- c) Pyridoxine
- d) Folic acid

- a)
 b)
 c)
 d)

No, the answer is incorrect.
Score: 0

Accepted Answers:
a)

14) Which of the following Vitamins is required for fatty acid β -oxidation? 1 point

- a) Vitamin C
- b) Biotin
- c) Thiamine
- d) Riboflavin

- a)
 b)
 c)
 d)

No, the answer is incorrect.
Score: 0

Accepted Answers:
d)

15) Which of the following Vitamins is involved in one-carbon metabolism? 1 point

- a) Vitamin B₁
- b) Folate
- c) Vitamin B₆
- d) Niacin

- a)
 b)
 c)
 d)

No, the answer is incorrect.
Score: 0

Accepted Answers:
b)