Cellular Basis of Medicine TESTS 2020-21

Expected time: Monday, 22, January 2020, 08:30
Start time: Monday, 22, January 2020, 08:30
Submission deadline: Monday, 22, January 2020, 09:00
Online grades: On-Jan. 27 'school'
Grades: 20.0 / method: 20.0 (MAX)

Navigation links

Edexcel's portfolio

Time 1 Marks 2 Negative 0 Edit Remove Add a note Hide in editor(s)

MCO QUESTION

Match the correct enzyme(s) to each of the pictured molecules (you receive 1 point for each correct pair).









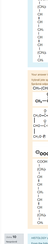


Your answer is partially correct.
Correct pairs are 0.
Selected answers are:











Time 2 Marks 2 Negative 0 Edit Remove Add a note Hide in editor(s)

MCO QUESTION

Match the type of secretion or way of transport by which the particular component of maternal milk (the secretory product of secretory cell) leaves the secretory cell.

IgA	Options...
lactoferrin, lysozyme	Options...
milk lipids	Options...
water, ions	Options...

Your answer is incorrect.
Options selected for:
IgA = apocrine secretion.
lactoferrin, lysozyme = exocytosis, exocytosis.
milk lipids = apocrine secretion.
water, ions = myocrine secretion.

Time 3 Marks 2 Negative 0 Edit Remove Add a note Hide in editor(s)

MCO QUESTION

Complete the text under the picture (you receive 2.5 points for each correct selection).

The hydrolysis of [redacted] releases [redacted] which [redacted] is activated.

Subsequently, [redacted] is activated by the reaction catalysed by [redacted].

If there is [redacted] amount of oxygen in cells, [redacted] by following regulatory reactions are activated.

In case of a lack of the substrate, [redacted] is activated, in case of an accumulation of the substrate, [redacted] is activated.

Enzyme catalyzing the reaction is [redacted] the rate of [redacted] enzyme transfers electrons to [redacted].

Reaction [redacted] is [redacted] by [redacted] in the electron transport chain.

Therefore, [redacted] in the reaction the [redacted].

Reaction [redacted] is important for gluconeogenesis because one of its products is used by the enzyme phosphoenolpyruvate carboxykinase.

Time 4 Marks 2 Negative 0 Edit Remove Add a note Hide in editor(s)

Vote requested at General approval.
Upvote per approval: 0
Downvote per approval: 0
MCO QUESTION

Complete the text under the picture (you receive 2.5 points for each correct selection).

The metabolic pathway pictured above takes place in many cells except [erythrocytes].

Reaction [redacted] is catalyzed by the enzyme [redacted] (phosphoenolpyruvate carboxykinase).

If there is an insufficient amount of oxygen in cells, enzymes enzyme [redacted] are produced in glucose and [redacted] 1, 6, 9.

In case of a lack of the substrate, [redacted] is activated, in case of an accumulation of the substrate, [redacted] is activated.

Enzyme catalyzing the reaction is [redacted] the rate of [redacted] enzyme transfers electrons to [redacted].

Reaction [redacted] is [redacted] by [redacted] in the electron transport chain.

Therefore, [redacted] in the reaction the [redacted].

Reaction [redacted] is important for gluconeogenesis because one of its products is used by the enzyme phosphoenolpyruvate carboxykinase.

Time 5 Marks 2 Negative 0 Edit Remove Add a note Hide in editor(s)

MCO QUESTION

Match the correct characteristic to each of the pictured molecules (you receive 1 point for each correct pair).

Time 6 Marks 2 Negative 0 Edit Remove Add a note Hide in editor(s)

Vote requested at General approval.
Upvote per approval: 0
Each correct answer is rewarded by 1 point.

Secreted catalyzed by [redacted] is the main transport form of amino nitrogen in blood.

Serves [redacted] as a [redacted] in the hydrolytic cleavage produces also [redacted].

not used for [redacted] [redacted] is the hydrolytic cleavage produces also [redacted].

formed by transamination of a product of glycolysis, [redacted] is a by-substrate homocysteine is involved.

Time 7 Marks 2 Negative 0 Edit Remove Add a note Hide in editor(s)

MULTI-SLIP MCO QUESTION

[redacted] is an [redacted] in the function of the mitotic spindle, the intracellular transport of organelles, and the formation of flagella and cilia.

[redacted] are participate in the function of the mitotic spindle, the intracellular transport of organelles, and the formation of flagella and cilia.

Three proteins that need one molecule of ATP for each ‚step' (shown [redacted]) are [redacted].

[redacted] energy the actin filaments to their [redacted].

Time 8 Marks 2 Negative 0 Edit Remove Add a note Hide in editor(s)

Vote requested at General approval.
Upvote per approval: 0
Each correct answer is rewarded by 1 point.
MULTI-SLIP MCO QUESTION

Choose the best answer

[redacted] are participate in the function of the mitotic spindle, the intracellular transport of organelles, but not in the formation of flagella and cilia.

[redacted] are participate in the function of the mitotic spindle, the intracellular transport of organelles, and the formation of flagella and cilia.

None proteins that need one molecule of ATP for each ‚step' [redacted] (kinesin, dynein, and myosin).

[redacted] energy the actin filaments to their [redacted].

Time 9 Marks 2 Negative 0 Edit Remove Add a note Hide in editor(s)

MCO QUESTION

Under aerobic conditions, cells can break down glucose to carbon dioxide and water. Several metabolic pathways are involved in the breakdown of glucose.

Select enzymes that are NOT involved in this process.
(No incorrect selections points are deducted)

Vote requested at General approval.
Upvote per approval: 0
Downvote per approval: 0

Time 10 Marks 2 Negative 0 Edit Remove Add a note Hide in editor(s)

Vote requested at General approval.
Upvote per approval: 0
Downvote per approval: 0
MCO QUESTION

Glycerol is a substrate for gluconeogenesis in the liver. It is converted to dihydroxyacetone phosphate (DHP). Acetyl CoA enters the Krebs cycle in which it is oxidized to 2 molecules of carbon dioxide and 2 molecules of water. Acetyl CoA is also a precursor of fatty acids and cholesterol. Lactate is formed in which oxygen is released in water. Carbonyl enzyme cofactor are produced in glycolysis and Krebs.

Vote per edamelli your general & phenylalanine, and CoA dehydrogenase, acetyl CoA carboxylase, citrate lyase, carbamoyl phosphate synthetase I.

Time 11 Marks 2 Negative 0 Edit Remove Add a note Hide in editor(s)

GRAPHIC QUESTION

Glycolysis can be defined as a metabolic disorder caused by a deficiency in the production of the [redacted] enzyme.

Glycolysis is a [redacted] disease. It is the most common [redacted] disease referred to as "hypercholesterolemia", all of which involve elevated levels of [redacted] in the blood.

primary symptoms of untreated disease is mental retardation. [redacted]

disorder. It is the cause of [redacted] energy, "amino acid metabolism." The disease is inculcate, but [redacted] is the most common [redacted] disease in the United States, affecting approximately [redacted].

The hypercholesterolemia [redacted] is a group of [redacted] that stem from the failure of a nuclear body's [redacted]. The underlying problem is referred to as the pyruvate test (Sickle-cell/alpha-thalassemia) assay. In the Czech Republic, the prevalence/incidence of this [redacted] is 1 in 36,000, thus the frequency of heterozygotes in the Czech Republic for this disease [redacted] is 1 in 18.

Time 12 Marks 2 Negative 0 Edit Remove Add a note Hide in editor(s)

Your answer is partially correct.
Correct pairs are 0.
Selected answers are:
(blank)
(blank)

Time 13 Marks 2 Negative 0 Edit Remove Add a note Hide in editor(s)

GRAPHIC QUESTION

Glycolysis can be defined as a metabolic disorder caused by a deficiency in the production of the [redacted] enzyme.

Glycolysis is a [redacted] disease. It is the most common [redacted] disease referred to as "hypercholesterolemia", all of which involve elevated levels of [redacted] in the blood.

primary symptoms of untreated disease is mental retardation. [redacted]

disorder. It is the cause of [redacted] energy, "amino acid metabolism." The disease is inculcate, but [redacted] is the most common [redacted] disease in the United States, affecting approximately [redacted].

The hypercholesterolemia [redacted] is a group of [redacted] that stem from the failure of a nuclear body's [redacted]. The underlying problem is referred to as the pyruvate test (Sickle-cell/alpha-thalassemia) assay. In the Czech Republic, the prevalence/incidence of this [redacted] is 1 in 36,000, thus the frequency of heterozygotes in the Czech Republic for this disease [redacted] is 1 in 18.

Your answer is partially correct.
Correct pairs are 0.
Selected answers are:
(blank)
(blank)

Time 14 Marks 2 Negative 0 Edit Remove Add a note Hide in editor(s)

Vote requested at General approval.
Upvote per approval: 0
Downvote per approval: 0
MCO QUESTION

Match the correct characteristic to each of the pictured molecules (you receive 1 point for each correct pair).

Time 15 Marks 2 Negative 0 Edit Remove Add a note Hide in editor(s)

Vote requested at General approval.
Upvote per approval: 0
Downvote per approval: 0
MCO QUESTION

Choose the true statements from the following ones - abid the nail-cases of connective tissues.

Choose only incorrect answer, an appropriate number of points will be deducted.

The "Gaull" or "melanoma" cells of connective tissues (1) means those cells, that are produced locally and remain there (connective tissue cells).

Your answer is partially correct.
Correct pairs are 0.
Selected answers are:
Fibroblasts,
myofibroblasts,

reticulocytes

Time 16 Marks 2 Negative 0 Edit Remove Add a note Hide in editor(s)

MCO QUESTION

Explain the term "transcytosis". Which macromolecules are transported by this type of transport? Give an example.

Transcytosis is a type of transcellular transport in which various macromolecules are transported across the interior of the cell, like liquids and transferrin.