Copy of Exam 2 - Results

Exit Preview

Attempt 1 of 3

Written Feb 28, 2024 10:17 AM - Feb 28, 2024 10:17 AM

Your quiz has been submitted successfully.

Attempt Score 0 / 23 - 0 %

Question 1 0 / 1 point

do plants make cholesterol?

True

False

Question 2 0 / 1 point

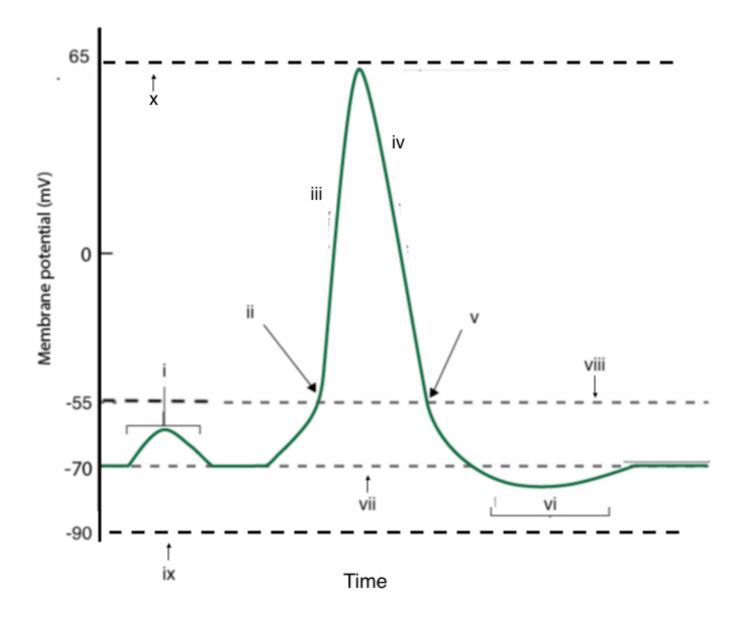
When blood glucose is abundant, a pretty neat trick of the liver is

glycolysis, which is an animal's way of storing glucose	
glycogenesis, which is an animal's way of storing glucose the production of glycoproteins, which is an animals, why glucose	of storing
glycogenolysis, which is an animal's way of storing glucose	е
gluconeogenesis, which is an animal's way of storing gluco	ose
Question 3	0 / 1 point
insulin	
signals skeletal muscle cells to transport glucose from the	blood
signals liver hepatocytes to breakdown glycogen	
signals liver hepatocytes to convert acetyl-CoA to ketone	bodies
signals brain cells to transport glucose from the blood	
signals adipose cells to breakdown stored triacylglycerols	
Question 4	0 / 1 point

Some snakes find prey by sensing the heat radiated by the prey animal. The snake is sensing

changes in air temperature (average kinetic energy of air molecule) by a type of proprioceptor
changes in air temperature (average kinetic energy of air molecule) by a type of thermoreceptor
the ultraviolet region of the electromagnetic spectrum by a type of electromagnetic receptor
the infrared region of the electromagnetic spectrum by a type of electromagnetic receptor
changes in air temperature (average kinetic energy of air molecule) by a type of mechanoreceptor

Question 5 0 / 1 point



What is going with the membrane potential at label iv?

the potential is rapidly moving toward the equilibrium pot	ential for K+
the Na+/K+ pump has reversed the direction that it is pur and K+	nping Na+
there is net positive charge moving into the cell	
the resting potential is changing because the membrane is permeable to Na+	s more
the resting potential is changing because the membrane is permeable to K+	s more
Question 6	0 / 1 point
A neuron has a resting potential what does this mean	
there is no transport of ions across the membrane	
the Na+/K+ pump is inactive	
the membrane is in electrochemical equilibrium there is of any ion across the membrane	no diffusion
the membrane potential is in electrical stability there is transport of charge across the membrane	no net
the membrane is impermeable to ions	
Question 7	0 / 1 point
the collection in an entired dist	

the cellulose in an animal diet comes from

a skeletal protein in the space outside plant cells
a cytoskeletal protein of plants
the plasma membrane of plant cells
it is a metabolic product from gut bacteria that eat undigested plants
the cell wall of plant cells

Question 8 0 / 1 point

Batrachotoxin (BTX) is a toxin found in poison arrow frogs and used by indigenous South Americans as a poison to tip darts or arrows. BTX paralyzes prey animals by its action on skeletal muscle. The mechanism of action is [hint: use wikipedia as a supplement to your textbook]

acetylcholine on the acetylcholine receptor of the skeleta inhibition blocks the response of the skeletal muscle to s the motor neuron.	al muscle. This
BTX depolarizes and permanently opens voltage-gated Non the axon of the neurons that stimulate skeletal muscle constant depolarization of the axon membrane blocks trathe action potential down the axon, inhibiting signaling of muscle.	e cells. The ansmission of
BTX is an inhibitor (a blocker) of voltage-gated Na+ chan axon of the neurons that stimulate skeletal muscle cells. stops the transmission of action potentials to the axon to	This inhibition
BTX cleaves the SNARE proteins in the axon terminus of that stimulate skeletal muscle cells. By cleaving the SNAI the curare inhibits the exocytosis of the vesicles containi acetylcholine.	RE proteins,
BTX is an allosteric inhibitor of the Ca++ channels on the This inhibits the exocytosis of the vesicles containing the	
Question 9	0 / 1 point
exocrine secretions from the pancrease contain	
emulsifying agents	
digestive enzymes	
the hormones insulin and glucagon	
bile	
the strong acid HCl	

Question 10	0 / 1 point
a major role of the pancreas in digestion is	
storage and secretion of bile	
secretion of insulin and glucagon	
absorption of digested molecules	
interconversion of lipids, carbohydrates, and peptides	
secretion of digestive enzymes	
Question 11	0 / 1 point
The ability to perceive the position of one's limbs is called [h lecture but there is very limited discussion of the <i>important</i> stextbook]	
mechanoception	
nociception	
proprioception	
perception	
graviception	
Question 12	0 / 1 point
dietary disaccharides	

are the lipid soluble vitamins	
are small carbohydrates with two subunits glucose and the other of which could be g galactose	
are two-unit peptide chains that form duri	ing digestion
are the fiber component of our diet	
are glycerols bonded to two fatty acids	
Question 13	0 / 1 point
The depolarization phase of an action potential of	al of a neuron occurs because
an inward Na+ current	
an electron flux out of the cell	
a K+ flux out of the cell	
a proton flux into the cell	
a Na+ current running down the axon	
Question 14	0 / 1 point

leucine is an essential amino acid. What is an essential amino acid?

amount (or make it at all)	an adequate
it is used as a co-enzyme	
it is necessary for cell function	
we only need it in very small amounts	
it is one of the 20 amino acids necessary to make protein	
Question 15	0 / 1 point
What is the role of Ca++ at a synapse?	
Ca++ is secreted by post-synaptic membranes to stop synapsignaling	aptic
Ca++ enters the cytosol of the terminal button and stimula exocytosis of neurotransmitter	ates
Ca++ is a secreted neurotransmitter that binds to receptor post-synaptic membrane and causes an EPSP	rs on the
Ca++ diffuses down its electrochemical gradient causing to synaptic membrane to hyperpolarize	he pre-
neurotransmitter binds to and opens ligand-gated Ca++ ch the post-synaptic membrane, causing an IPSP	nannels on
Question 16	0 / 1 point
what cance do the rme recentors conce?	

what sense do thermoreceptors sense?

	light
	force
	electrical fields
	temperature
	specific chemicals
	Question 17 0 / 1 point
	The conversion of a sensory signal into a change in membrane potential on the sensory cell's plasma membrane is known as
	sensory transduction
	proprioception
	perception
	the translation of a sensory signal into electrical information (an action potential)
	an action potential
C	Question 18 0 / 1 point
	if the membrane potential is -120 mV, the rate and direction of K+ diffusion and Na+ diffusion is

K+: low rate, into the cell; Na+: high rate, out of the cell
K+: low rate, into the cell; Na+: high rate, into the cell
K+: high rate, out of the cell; Na+: high rate, out of the cell
K+: high rate, into the cell; Na+: high rate, into the cell
K+: high rate, out of the cell; Na+: low rate, into the cell
Question 19 0 / 1 point
Fatty acids are stored by both plants and animals as what molecule?
glycogen
triacylglycerols
Cholesterol
Olow density lipoprotein
starch
O seen six

Question 20 0 / 1 point

Some human populations have evolved a higher copy number of amylase genes. What is copy number?

alternative splicing	a gene by
the number of transcripts that can be made by a gene	
the number of alleles of a gene in a population	
the number of genes in a gene family	
the number of duplicate copies of a gene in the genom	e of a person
Question 21	0 / 1 point
if the membrane potential is +20 mV, the rate and direction and Na+ diffusion is	n of K+ diffusion
K+: low rate, into the cell; Na+: high rate, into the cell	
K+: low rate, out of the cell; Na+: high rate, into the cell	II
K+: low rate, into the cell; Na+: high rate, out of the ce	II
K+: high rate, out of the cell; Na+: low rate, into the ce	II
K+: high rate, out of the cell; Na+: high rate, out of the	cell
Question 22	0 / 1 point
In the postabsorptive state,	

 $https://courses.maine.edu/d2l/lms/quizzing/user/quiz_submissions...5675 \& isln Popup = 0 \& cfql = 0 \& from QB = 0 \& from Submissions List = 1 \& ou = 202791 \\ local contraction of the properties of the propert$

nutrient energy in the blood is high and tissues synthesize and store ATP
nutrient energy in the blood is low and tissues use glucose from glycogen stores in the liver and fatty acids from triacylglycerol stores in adipose cells
nutrient energy in the blood is high and tissues use absorbed glucose and fatty acids
nutrient energy in the blood is low and tissues rely on stored ATP
nutrient energy in the blood is low and tissues rely on amino acids from the breakdown of muscle tissue
Question 23 0 / 1 point
When blood glucose is limited, a pretty neat trick of the liver is
When blood glucose is innited, a pretty heat thek of the liver is
lipogenesis from fatty acids
lipogenesis from fatty acids
lipogenesis from fatty acids gluconeogenesis from fatty acids
lipogenesis from fatty acidsgluconeogenesis from fatty acidsprotein synthesis from fatty acids
 lipogenesis from fatty acids gluconeogenesis from fatty acids protein synthesis from fatty acids lipogenesis from glucose
 lipogenesis from fatty acids gluconeogenesis from fatty acids protein synthesis from fatty acids lipogenesis from glucose