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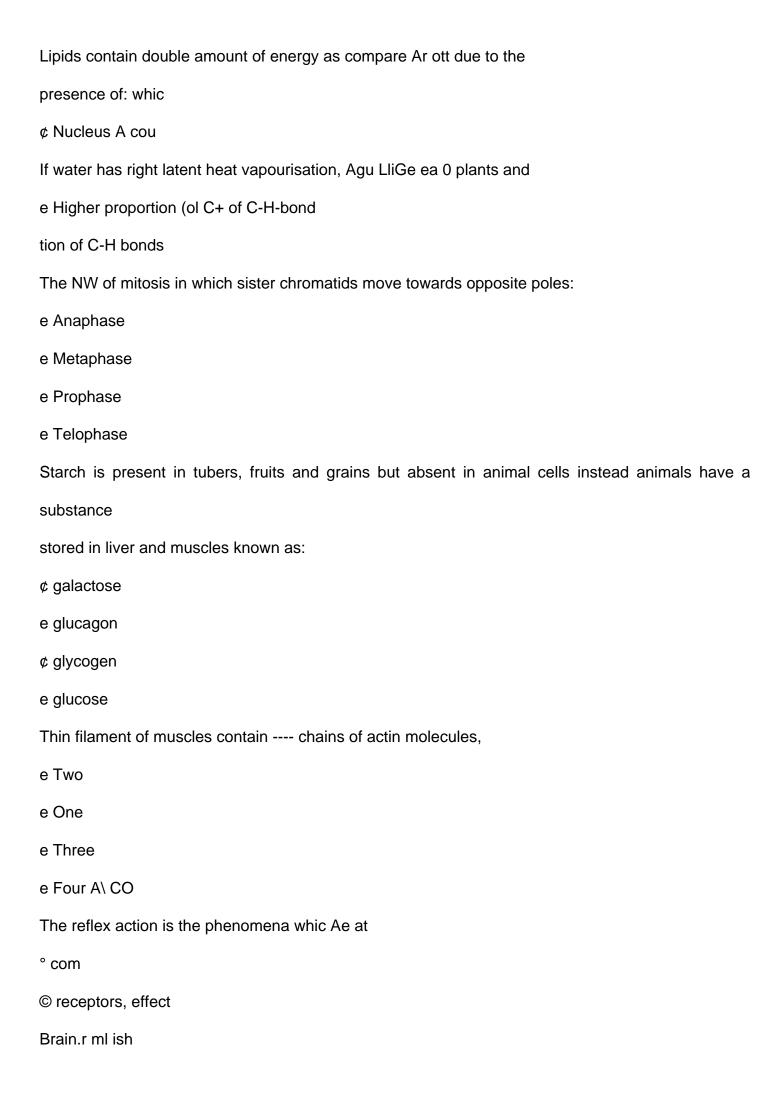
99,

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Biology
Sara is a chemistry who is carrying out an exp are lia Gus A sco in the
laboratory. The product formed at hehe nd o rer
e Glycogen and wat rime a
e Glucose and ox aA
e a iN
i _ acid
The MN ee infoldings which are formed by inner membrane of mitochondria are called:
e Ribosomes
¢ = Matrix
e Porin
e Cristae
The main neurotransmitter for synapses is which lie outside the central nervous system.
e Acetylcholine
e Acetaldehyde
e Choline

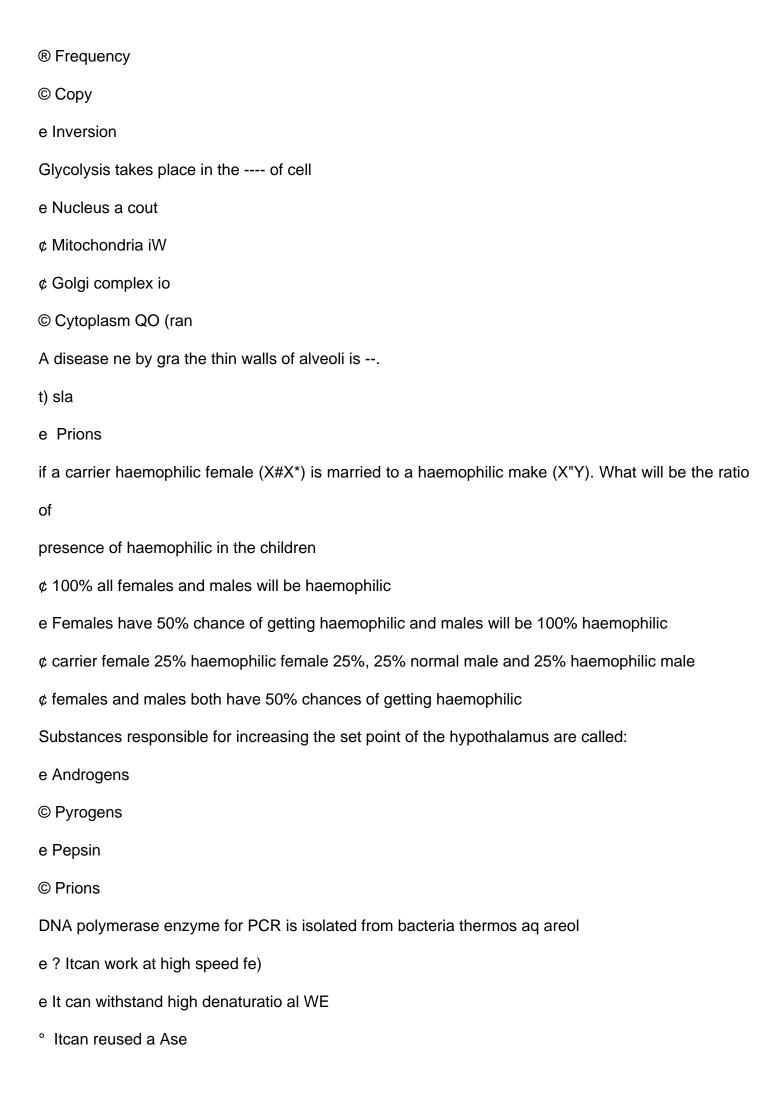
¢ ?Phosphatidylcholine
The structure present in a present eukaryotic cell but absent in prokaryotic cells is
e DNA
¢ Ribosomes
¢ Cell surface membrane
animals
¢ With the releasecof large nA atts ~4 Small atfiount of heat loss can take place
o With the =a ater vapours, a great amount of heat loss can take place
wil Ke i high.
a with . release of even large amount of water vapours
Sit anelle is responsible for cell secretion?
Chloroplast
e Golgi body
e Ribosomes
e Mitochondrion
Now a days every new born gets regular shots of vaccine for polio.it contains for polio to make
a
child immune against this disease.
e Antibiotics
e Antibodies
e Antigens
e Antisera
Change in frequency of alleles that occurs by chance is called as:
e Genetic drift
e Mutation
¢ Migration
e Natural selection



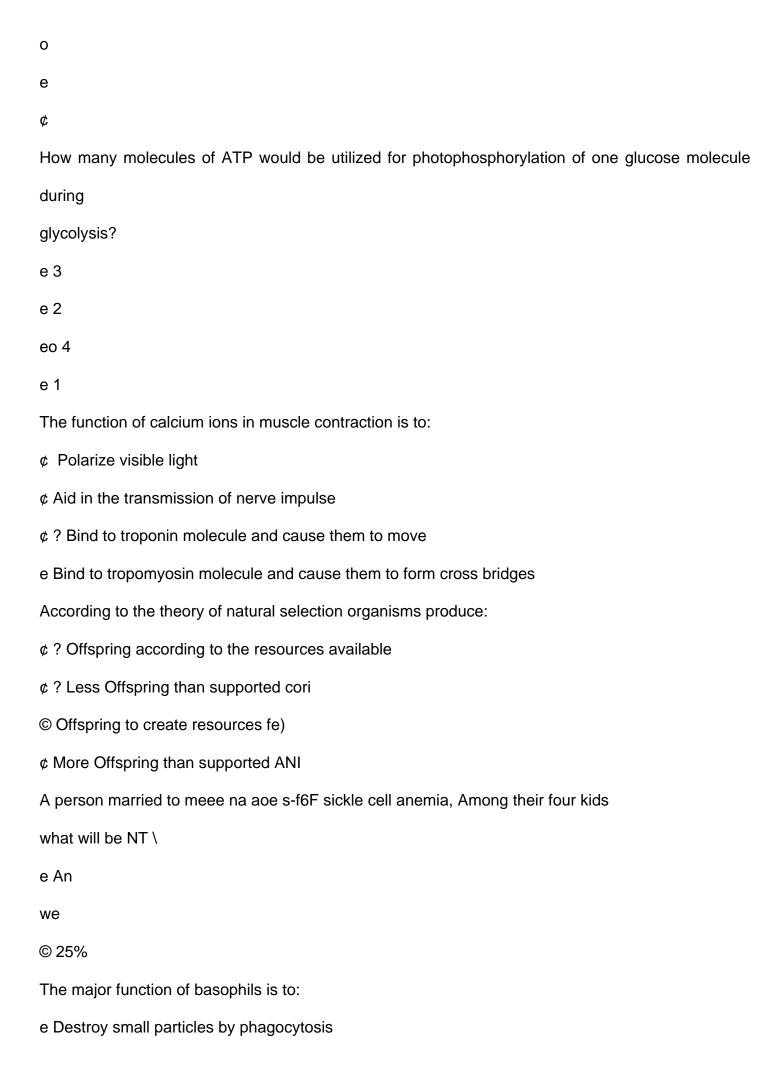
. new urons, a
Com ntary DNA molecules is:
DNA from mRNA
An artificial DNA
e Single stranded DNA
¢ Asmall segment of chromosomal DNA
What is common in both competitive and non-competitive inhibition?
¢ Feedback inhibition
¢? Irreversible inhibition
¢ Non-Reversible inhibition
e Reversible inhibition
Meselson and Stahl transferred few bacteria grown in N° medium to N'? medium for replicating their
DNA. What would be the result after two rounds of replication?
100% heavy duplex
e 100% hybird duplex
50% hybird duplex and 50% heavy duplex
50% hybird duplex and 50% light duplex
In an action potential, the permeability of sodiy um io. eeu Ka Go
¢ ? Repolarization ou
ic
iui!
° eter reli cae
0 Ae fat gen
© Sodium ions a
° nee Ne i
e Teac ae snesterat enzyme
In wit   u ih enes are not assorted independently during meiosis in a chromosomes?

When genes are linked and their loci are close to each other.
¢ When some genes have mutated on the chromosomes
e When there too many genes on a chromosomes
¢ When genes are not linked and their loci are far apart
During spermatogenesis, the, which are haploid cells eventually mature into spermatozoa
sperms:
¢ Spermatogonia
e Primary spermatocytes
e Spermatids
e Secondary spermatocytes
Site of protein synthesis is:
e ?Lysosomes
¢ Ribosomes
° Golgi body
e thet
. The photosynthetic pigments of plants are arrange wl in Vion e reaction
centers of these clusters consist of mo
ule)
° ee
: re
o saa S
agate nd Novdenaie are two types of used in our nervous system.
e Enzymes
e Channel and carrier proteins in the cell membrane of Neurone
e Neurotransmitters
¢ Hormones
The types of energy reduced by the enzymes for biological reaction to occur is called the

```
¢? Light energy
e Heat energy
e Active energy
e Activation energy
The prokaryotes posses small ribosomes of size:
e 708
e 65S
e 60S
e 40S
Homozygous means: cout
¢ Alleles is an organisms ar
¢ Two different alleles of a gen (\)
© Having two aor Pall
Having two identica Maoh?
Most protein SAW a
wee Ni Ne eter > urinary bladder > urethera
r
inary bladder = kidney ? ureter > urethra
e Kidney > urethra ~ urinary bladder > ureter
e Kidney > ureter > urethra > urinary bladder >
Most proteins are made up of:
© 10 types of amino acids
e 20 types of amino acids
¢ 170 types of amino acids
e 16 types of amino acids
In genetics, the term locus refers to the ---- of the gene on the chromosome,
e Position
```



e Itcan be used
Which of the wine a (aaa is involved in cyclic photophosphorylation?
nee
@ = PStand PSII
© Sil ame
Which hormonal pair would maintain the endo i tivefor sont of
embryo?
e ? Luteinising horfr} i ra
e Estrogen deh
° AN fonts fe oh an hormone
ing hormone and follicle stimulating hormone
The ic filaments in a myofibril of muscles are made of
¢ Myoglobin
e Myosin
e Actin
e Haemoglobin
Messenger RNA after transcription? iW Ay coll
© GGGAUCUC al
e GGGATCTC (
¢ GGGAUCUC
° 6666 en
In cheni can Motor MY pumps moves from,
e ~ Stroma to lumen
¢ ?Cytoplasm to Stroma
¢ lumen to Stroma NG cou
¢ Stroma to cytoplasm iW
ou subunits 6 \$ an in\-+ CaN



e Release heparin to prevent blood clotting
¢ Transport oxygen
e ? Inactivate inflammation producing substances
Which enzymes is administered to the patients to severe combined immunodeficiency disease
(SCID)?
e Adenosine deaminase (ADA)
¢ Pancreatic enzyme
° B-galactosidase
e f-lactamase
What is name of part C?
¢ Collecting tubule
e Proximal tubule ar cout
¢ Distal tubule Ny
© Loope of henle qo
Inside ovary primary ori NG élotic division forming two haploid cells, secondary
oocytes ?
an cell
e Polar body
Transgenic mice have been used to produce
e Extra hair
e Agrowth hormone
¢ Protein rich milk
¢ Protein rich meat
In plant which sugar is transported from source to sink through sieve tubes?
¢ Glucose
e Sucrose
e Fructose

e Starch
Which of the following hormone stimulates the ovulation from follicle into oviduct?
e Estrogen
e Progesterone
o Luteinizing hormone ei cot
¢ Follicle stimulating hormone iW
Which one is an crane of-nucleotide au
e Adenosine ia
e NAD
st Ws i
Capsid the protective coat of a virus is made up of subunits known as capsomeres,
e DNA
e RNA
e Protein
° Lipid
If stimulation is above impulses travel to the brain along the sensory neuron.
¢ Recovery period
¢ ? Resting potential
¢ Action potential
e Threshold
The covalent bond between two monosaccharides to form a disaccharide is called a:
e Hydroxyl bond
¢ Hydrogen bond
e = Carboxyl bond
° Glycosidic bond
The structure of a fibrous protein comprises of:po mee s\in\t Gs
e Custer

@ Spherical or curlé ?FA	
° Longs INP rfl	
we Fain	
ro ncludes the arrangement of organisms into different taxa,	
Species, genus family, order class, phylum	
¢ Order, family, class, phylum, kingdom	
¢ Species, genus family, class, order, phylum	
© Species, genus, order, family, class, phylum	
The plasmid pBR322 has antibiotic resistance genes for:	
e Streptomycin	
¢ Ampicillin and tetracycline	
e Tetracycline and Doxycycline	
© Doxycycline and Ampicillin	
Which of the following blood vessels contain semilunar valves?	
e Arteries	
e Capillaries	
° Veins	
e Arterioles	
The main nitrogenous excretory product of human is: or EO	
e Ammonia iW	
¢ Urea al	
e Ammonium magi	
° Uric Acid	
If 15 wl Nivea ved under light microscope using 5X eyepiece and 10X objective its image	
size aid	
e aie pm	
© 500 ym	

e 504m
e© 250 pm
A person got an infection, he became ill but then he survived describe his developed immunity?
e Active immunity
¢ Artificially induce active immunity
@ Passive immunity
e Naturally induce active immunity
The nitrogen containing baes in nucleotide are two types
e Adenine, Guanine and cytosine
e Guanine and cytosine
e Adenine and Guanine
¢ Adenine and thymine
The process in which a complementary me of the code from a MiNi GM ae in
nucleus:
) Transcription alte
° Translation
e Proof readi sage
ers ings sic cellular organelle contains circular DNA similar to those found in bacteria?
o Lysosome
e Nucleus
e Chloroplast
o Ribosome
Large lymph vessels ultimately from large lymph duct which drains its lymph to:
e Carotid and Aorta
¢ Subclavian Artery
e Vena cava and Aorta
e Subclavian Vein

Xerophytes have small thick leaves to:
e Help the float on water
e Limit water loss by increasing the surface area
e Help them survive in salty environment
e ? Limit water loss reducing the surface area
Passive processes for the movement of molecules across iW surface(Temb we Ou
e Osmosis and phagocytosis
e Pinocytosis and as diff us)9 sn
° facilitated ah al
° era id
During the.G
ane number is duplicate
The Chromosome are left with only one chromatid
o Energy is stored for Chromosome movement and mitotic specific proteins are produced
© Specific enzymes are synthesized and DNA base units are accumulated
During inspiration the space inside the chest cavity is increased due to:
e The relaxation of the muscles of the diaphragm
e Relaxation of the external intercostal muscles
© Increase pressure
e The contraction of the muscles of the diaphragm
Which is an example of a disaccharide
e Starch
° Lactose
¢ Fructose
e Glycogen
In glycine R is
e Ethane

- e Fatty acid aye: ool
- e Hydrogen Na (\)
- e Methane \\

Blood group AB is an al

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Atl egestas