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Online Examination for STUs

Ethiopia

Test Execution: Biology

Questions

The type of protein to be synthesized would be primarily determined by the:

- ☐ Ribosome
- ☐ mRNA
- ☐ tRNA
- ☒ DNA

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Questions

- ☐ Nucleus
- ☒ Plasmid
- ☐ Mitochondrion
- ☐ Chloroplast

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Online Examination for STUs

Ethiopia

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Test Execution: Biology

Questions

Which of the following activities does **NOT** use ATP?

- ☐ Conduction of nerve impulse
- ☐ Muscle contraction
- ☒ Movement of water molecules across cell membrane
- ☐ Synthesis of macromolecules like proteins

< previous (2) (3) confirm (4) next >

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Online Examination for STUs

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Test Execution: Biology

Questions

All of the following are industrial processes of microbial fermentation products **EXCEPT**:

- ☐ bread
- ☒ milk
- ☐ vinegar
- ☐ ethanol

< previous (3) (4) confirm (5) next >

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Online Examination for STUs

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Test Execution: Biology

Questions

In a scientific research design, the standard group in which experimental groups are compared with is:

- ☒ a control
- ☐ an experimental
- ☐ a hypothesis
- ☐ a result

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Online Examination for STUs

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Test Execution: Biology

Questions

Which one is **TRUE** about light-independent reaction of photosynthesis?

- ☐ The process does not use energy
- ☐ It cannot take place in the presence of light
- ☒ It uses the ATP which is harvested during the light-dependent phase
- ☐ There is no any chemical reaction

< previous (5) | (6) confirm | (7) next >

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Test Execution: Biology

Questions

Instruction: Answer the question based on the following information about the solutions with different concentrations given below.

A. Solution A = 0.1 M sucrose
B. Solution B = 0.3 M sucrose
C. Solution C = 0.9 M sucrose

What will happen to the potato tissue in question 12 if immersed in solution A?

- ☐ Will be turgid
- ☐ Undergoes plasmolysis
- ☐ Loses weight
- ☒ Shrinks

< previous (6) (7) confirm (8) next >

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Online Examination for STUs

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Test Execution: Biology

Questions

_____ is a storage carbohydrate in animal cells.

- ☐ Starch
- ☒ Glycogen
- ☐ Glucose
- ☐ Cellulose

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Test Execution: Biology

Questions

The disease that is caused by a parasite *plasmodium* is:

- ☐ pulmonary tuberculosis
- ☒ malaria
- ☐ cholera
- ☐ typhoid

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Test Execution: Biology

Questions

Which of the following categories of diseases are caused by microorganisms?

- ☐ Social diseases
- ☐ Genetic diseases
- ☒ Infectious diseases
- ☐ Deficiency diseases

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A terrestrial biome characterized with very wet precipitation, regular warm temperature, poor and thin soil, and many plants and animals is represented by:

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Test Execution: Biology

Questions

Which one of the following is **NOT** directly related to comparative biochemistry as a support for the theory of evolution?

- ☐ The amino acid sequence in haemoglobin
- ☒ Pentadactyl limb modification
- ☐ The cytochrome c in the electron transport chain
- ☐ The base sequences of DNA

< previous (11) (12) confirm (13) next >

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Test Execution: Biology

Questions

Which one of the following does **NOT** describe innate behavior?

- ☐ It is developed through trial and error
- ☐ It is not modified or improved
- ☐ It is always adaptive
- ☒ Performed by all members of a species in a similar manner

< previous (12) (13) confirm (14) next >

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Test Execution: Biology

Questions

The main guiding idea of conservation involves:

- ☐ research
- ☐ minimum intervention
- ☐ repair rather than replace
- ☒ all of the above

< previous (13) (14) confirm (15) next >

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Online Examination for STUs

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Test Execution: Biology

Questions

Which one of the following is a mismatch regarding enzymes and their function or the reaction they catalyze?

- ☐ DNA polymerases - hydrolysis of ATP
- ☐ Lipases - hydrolysis of lipids
- ☐ Amylases - starch conversion
- ☒ Proteases - removal of stains and hair

< previous (14) (15) confirm (16) next >

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Test Execution: Biology

Questions

In a DNA molecule whose total number of nucleotides is 400 and that of cytosine is 50, the sum of adenine and thymine would be?

- ☐ 150
- ☐ 50
- ☐ 100
- ☒ 300

< previous (15) (16) confirm (17) next >

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Online Examination for STUs

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Test Execution: Biology

Questions

The main difference between Gram-positive and Gram-negative bacteria originates from:

- ☒ the ability to produce endotoxins from their outer membranes
- ☐ the thickness of peptidoglycan in their cell wall structures
- ☐ their variations in cell shape and size
- ☐ the strength of crystal violet and safranin staining dyes

< previous (16) (17) confirm (18) next >

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Test Execution: Biology

Questions

Which one of the following processes determines whether the individual plant is homozygous or heterozygous for a given trait?

- ☐ Segregation
- ☐ Independent assortment
- ☐ All of the above
- ☒ Test cross

< previous (17) (18) confirm (19) next >

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Test Execution: Biology

Questions

Which one of the following represents a **CORRECT** monomer-polymer pairing?

- ☐ Monosaccharide - disaccharide
- ☐ Fatty acids - triglycerides
- ☒ Amino acid - dipeptide
- ☐ Nucleotide - nucleic acids

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Test Execution: Biology

Questions

The scientific name of an organism is derived from its

- ☐ family and species
- ☐ genus and family
- ☐ species and class
- ☒ genus and species

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Test Execution: Biology

Questions

The functions of triglyceride include all of the following **EXCEPT**:

- ☐ respiratory substrate
- ☐ thermal insulation
- ☐ buoyancy
- ☒ biological catalysis

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Test Execution: Biology

Questions

The functions of triglyceride include all of the following **EXCEPT**:

- ☐ respiratory substrate
- ☐ thermal insulation
- ☐ buoyancy
- ☒ biological catalysis

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Online Examination for STUs

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Test Execution: Biology

Questions

Why are some plants referred to as C3 in relation to photosynthesis?

- ☐ The first product formed contains a four carbon compound
- ☐ Their ultimate product is not sugar
- ☐ They are more of tropical plants
- ☒ The first product formed is a three carbon compound

< previous (21) (22) confirm (23) next >

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Online Examination for STUs

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Test Execution: Biology

Questions

The tertiary structure of a protein:

- ☐ can be a specific sequence of amino acids
- ☐ is built from two or more polypeptides
- ☒ can give a specific function to a protein
- ☐ is the consequence of its primary structure

< previous (22) (23) confirm (24) next >

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Online Examination for STUs

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Test Execution: Biology

Questions

Which one of the following is **WRONG** about the alleles that do not segregate during gamete formation?

- ☐ The genes are inherited together
- ☐ The ratio of the F2 generation is different from that of the classical Mendelian crosses
- ☐ The genes exhibit linkage
- ☒ Linkage doesn't affect normal segregation of genes during gamete formation

< previous (23) (24) confirm (25) next >

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Online Examination for STUs

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Test Execution: Biology

Questions

Identify the **CORRECT** route of response to a stimulus in a human body.

- ☐ Central nervous system → efferent neurons → sense organ → afferent neuron → muscles
- ☒ Sense organ → afferent neuron → central nervous system → efferent neurons → muscles
- ☐ Sense organ → efferent neurons → central nervous system → afferent neuron → muscles
- ☐ Central nervous system → afferent neuron → sense organ → efferent neurons → muscles

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Online Examination for STUs

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Test Execution: Biology

Questions

Which one of the following can be produced from the fungus *Fusarium*?

- ☐ Insulin
- ☒ Mycoprotein
- ☐ Lactic acid
- ☐ Bioethanol

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Online Examination for STUs

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Test Execution: Biology

Questions

Rod-shaped bacteria are called:

- ☒ spirochaetes
- ☐ cocci
- ☐ bacilli
- ☐ diplococci

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Online Examination for STUs

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Test Execution: Biology

Questions

A type of inhibitor that does **NOT** compete for an active site of an enzyme is:

- ☐ non-competitive inducer
- ☐ competitive inducer
- ☒ non-competitive inhibitor
- ☐ competitive inhibitor

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Online Examination for STUs

Ethiopia

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Test Execution: Biology

Questions

Instruction: Answer the question based on the following information about the solutions with different concentrations given below.

A. Solution A = 0.1 M sucrose
B. Solution B = 0.3 M sucrose
C. Solution C = 0.9 M sucrose

If a potato tissue immersed in solution B does **NOT** show any change in weight, which one could be the most probable reason?

- ☐ The solution is isotonic to the cell sap of the potato tissue
- ☐ The cell sap in the potato tissue has more solute concentration than the solution
- ☐ The solution is hypotonic to cell sap of the tissue
- ☒ Solution B is hypertonic to the potato tissue

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