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Question <b>1</b>	The basic structural and physiological unit of all living organisms is the				
Not yet answered	Select one:				
Marked out of	O cell.				
1.00	O organism.				
	O membrane.				
	O organelle.				
	O aggregate.				
Question <b>2</b>					
Not yet answered	Which of the following represents a correct ordering of the levels of complexity at which life is studied, from most simple to most complex?				
Marked out of	Select one:				
1.00	O Cell, tissue, organ, organism, population, community.				
	O Cell, organ, tissue, organism, population, community.				
	O Cell, tissue, organ, population, organism, community.				
	O Tissue, organ, cell, population, organism, community.				
	O Community, population, organism, organ, tissue, cell.				
Question <b>3</b>	Amino acids can be classified by the				
Not yet answered					
Marked out of	Select one: O characteristics of their side chains, or 'R' groups.				
1.00	<ul> <li>number of carbon–carbon double bonds in their fatty acids.</li> </ul>				
	<ul> <li>number of peptide bonds they can form.</li> </ul>				
	<ul> <li>number of disulfide bridges they can form.</li> </ul>				
Question <b>4</b>	A protein can best be defined as a polymer				
Not yet answered	Select one:				

 $\bigcirc$  containing 20 peptide linkages.

1.00

- $\bigcirc$  containing 20 amino acids.
- containing one or more polypeptide chains.  $\bigcirc$
- containing double helices.  $\bigcirc$

Question 5	Enzymes are				
Not yet answered	Select one:				
Marked out of	O proteins.				
1.00	<ul> <li>proteins.</li> <li>lipids.</li> </ul>				
	<ul> <li>carbohydrates.</li> </ul>				
	O DNA.				
	<ul> <li>amino acids.</li> </ul>				
Question <b>6</b> Not yet	Carbohydrates are				
answered	Select one:				
Marked out of 1.00	O nucleosides.				
	O lipids.				
	<ul> <li>aldehydes or ketones with multiple hydroxyl groups.</li> </ul>				
	O fatty acids.				
	<ul> <li>polypeptides</li> </ul>				
Question <b>7</b>	In animals, glucose is stored in the compound				
Not yet					
answered Marked out of	Select one:				
1.00	O fructose.				
	O amylose.				
	O cellobiose.				
	O cellulose.				
	O glycogen.				
Question <b>8</b> Not yet	The main function of cellulose, the most abundant organic compound on Earth, is				
answered	Select one:				
Marked out of 1.00	O to provide mechanical strength to plant cell walls.				
	O as a storage compound for energy in plant cells.				
	O to store genetic information.				
	$\bigcirc$ as a storage compound for energy in animal cells.				
	<ul> <li>as a component of biological membranes.</li> </ul>				
Question <b>9</b>	A nucleotide contains a pentose sugar, a phosphate group, and				
Not yet					
answered					

answered

Marked out of 1.00

## Select one:

- $\bigcirc$  an amino acid.
- $\bigcirc$  a glycerol.
- $\bigcirc$  an acid.
- $\bigcirc$   $% \left( {{\left( {{\left( {{{\left( {{_{{\rm{m}}}}} \right)}} \right)}_{\rm{max}}}} \right)} \right)$  a nitrogen-containing base.
- $\bigcirc$  a lipid.

Question <b>10</b> Not yet	DNA carries genetic information in its				
answered	Select one:				
Marked out of	O sequence of amino acids.				
1.00	<ul> <li>sequence of bases.</li> </ul>				
	O tertiary sequence.				
	<ul> <li>helical form.</li> </ul>				
	O phosphate groups.				
Question <b>11</b> Not yet	The central dogma of molecular biology states that				
answered	Select one:				
Marked out of 1.00	O the information flow between DNA, RNA, and a protein is reversible.				
	$\bigcirc$ the information flow in a cell is from protein to RNA to DNA.				
	$\bigcirc$ the genetic code is ambiguous.				
	$\bigcirc$ the information flow in a cell is from DNA to a protein to RNA.				
	O the information flow in a cell is from DNA to RNA to protein.				
Question <b>12</b>	Lipids are				
Not yet answered	Select one:				
Marked out of	<ul> <li>important constituents of biological membranes.</li> </ul>				
1.00	O important for energy storage.				
	O hydrophobic.				
	<ul> <li>All of the given</li> </ul>				
	O insoluble in water.				
Question <b>13</b>	Which of the following is not a function in which lipids play an important role?				
Not yet answered	Select one:				
Marked out of	<ul> <li>Vision</li> </ul>				
1.00	O Chemical signaling				
	<ul> <li>Storing genetic information</li> </ul>				
	<ul> <li>Membrane structure</li> </ul>				
	O Storing energy				
Question <b>14</b>	What is the major distinction between a prokaryotic and a eukaryotic cell?				
	That is the major distriction setween a prokaryotic and a cakaryotic cent				

answered

Marked out of

Not yet

1.00

## Select one:

- O Prokaryotic cells have not prospered, whereas eukaryotic cells are evolutionary "successes."
- O A prokaryotic cell is smaller than a eukaryotic cell.
- O A prokaryotic cell cannot obtain energy from its environment.
- $\bigcirc$  A prokaryotic cell does not have a nucleus, whereas a eukaryotic cell does.
- $\bigcirc$  A prokaryotic cell does not have DNA, whereas a eukaryotic cell does.

Question <b>15</b>	Ribosomes are made up of					
Not yet answered	Select one:					
Marked out of	<ul> <li>DNA and RNA.</li> <li>RNA and proteins.</li> </ul>					
1.00						
	O proteins.					
	O DNA.					
	O DNA and proteins.					
16						
Question <b>16</b> Not yet	During photosynthesis, plants use light energy to synthesize glucose from carbon dioxid~However, plants do not use up energy during photosynthesis; they merely convert it from light energy to chemical energy. This process is an illustration					
answered	of					
Marked out of 1.00	Select one:					
	O the second law of thermodynamics.					
	O a spontaneous reaction.					
	O the first law of thermodynamics.					
	O chemical equilibrium.					
	O increasing entropy.					
a						
Question <b>17</b> Not yet	The first phase of photosynthesis, a series of reactions that requires the absorption of photons to form ATP and NADPH, is referred to as the phase.					
answered						
Marked out of 1.00	Select one:					
1.00	O carbon fixation					
	O None of them					
	O light reactions (or photophosphorylation)					
	O dark reactions					
	O reduction					
Question <b>18</b>	The Intergovernmental Panel of Climate Change, sponsored by the United Nations, may be able to impact global climate					
Not yet answered	change by					
Marked out of	Select one:					
1.00	<ul> <li>light energy that is not absorbed.</li> </ul>					
	<ul> <li>wavelengths of lights that are not part of the absorption spectrum.</li> </ul>					
	O inefficiency chemical energy storage of photosynthetic products.					
	O inefficiency of light reactions that convert light to chemical energy.					

 $\bigcirc$   $\phantom{a}$  reducing carbon dioxide emissions.

## Question **19**

Not yet answered

Marked out of 1.00

Because all animals must take in nutrients from their environment and digest their food internally, the nutritional mode of animals is called

Select one:

- O chemoautotrophic.
- $\bigcirc$  photoautotrophic.
- $\bigcirc$  chemolithotrophic.
- $\bigcirc$  heterotrophic.
- $\bigcirc$  photoheterotrophic.

Question <b>20</b> Not yet	Which of the following statements about metabolic pathways is true?				
answered	Select one:				
Marked out of 1.00	O In eukaryotes, they occur in the cytoplasm.				
1.00	O Each one is regulated by specific enzymes.				
O They vary from organism to organism.					
<ul> <li>Complex chemical transformations in the cell occur in a single reaction.</li> <li>Each reaction requires oxygen.</li> </ul>					
<ul> <li>Mathematics - Sample test</li> </ul>		Jump to	Math Exam Test - May 10 2021 ►		