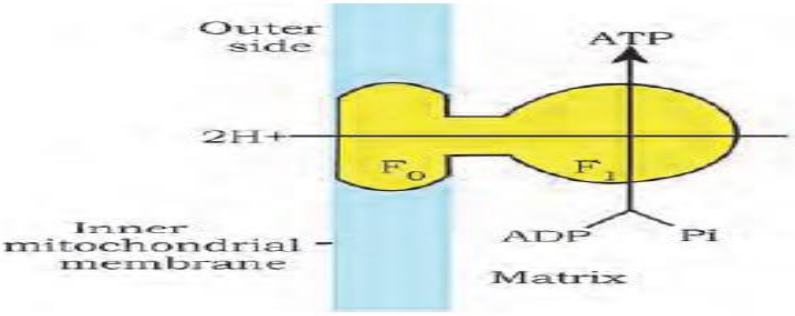


Marking Scheme

Class XI

Unit test -2 Biology

<b>SECTION A</b>		
<b>Sl. No.</b>	<b>QUESTION</b>	<b>MARKS</b>
1	Glycolysis is also known as ____ a.EMP pathway	1
2	Protons accumulate on the _____ in mitochondria b.Intermembrane space	1
3	Acetyl CoA forms a 6-C compound after combining with d.Oxaloacetic acid	1
4	Coconut milk contains a cytokinin called ____ which promotes plant growth. d. Zeatin	1
5	-----is a plant hormone generally present in the gaseous state a. Ethylene	1
6	_____ tissues synthesize natural cytokinin's b.Rapidly dividing	1
7	Seed dormancy is triggered by b.Abscisic acid	1
8	c	1
9	a	1
<b>SECTION B</b>		
10	-The complete oxidation of pyruvate by the stepwise removal of all the hydrogen atoms, leaving three molecules of CO <sub>2</sub> . - The passing on of the electrons removed as part of the hydrogen atoms to molecular O <sub>2</sub> with simultaneous synthesis of ATP.	1+1
11	Reason -In the respiratory pathway different substrates would enter if they were to be respired and used to derive energy-catabolism -compounds that would be withdrawn from the respiratory pathway for the synthesis of the said substrates. -anabolism any one example.	½ ½ 1
<b>SECTION C</b>		
12	Answer the following a) to inhibit apical dominance and promote lateral growth in both tea plantations and hedge-making. b) differentiation -cells losing their capacity to divide +taking a definite structure & function	1 ½

	<p>dedifferentiation- differentiated cells regaining their capacity to divide</p> <p>c) stress hormone-ABA, released to close stomata under water stress condition</p>	<p>1/2</p> <p>1/2+1/2</p>
13	<p>a) ETS</p> <p>b) Inner Mitochondrial membrane complex 5 -ATP synthase (complex V) for the production of ATP from ADP and inorganic phosphate</p> <p>c) 3molecules of ATP</p> <p style="text-align: center;">Or</p> <p>Diagram-1 4 important markings-2</p> 	<p>1/2</p> <p>1/2</p> <p>1/2</p> <p>1/2</p>
<b>SECTION D</b>		
14	<p>a) A -Arithmetic &amp; B-Geometric</p> <p>b) limited resources</p> <p>c) A -Linear curve &amp; B-sigmoid curve.</p> <p style="text-align: center;">Or</p> <p>c) any two points</p>	<p>1</p> <p>1</p> <p>1+1</p> <p>1+1</p>
<b>SECTION E</b>		
15	<p>a) TCA Cycle</p> <p>b)</p> <div style="background-color: #ffffcc; padding: 5px; text-align: center;"> <math display="block">\text{Pyruvic acid} + \text{CoA} + \text{NAD}^+ \xrightarrow{\text{Pyruvate dehydrogenase, Mg}^{2+}} \text{Acetyl CoA} + \text{CO}_2 + \text{NADH} + \text{H}^+</math> </div> <p style="text-align: center;">Or</p> <p>a) Glycolysis- one molecule glucose to two molecules of pyruvic acid + cell cytoplasm</p> <p>b) flow chart- with any 6 steps</p>	<p>4</p> <p>1</p> <p>2</p> <p>3</p>