CLASS:XI	INDIAN SCHOOL MUSCAT	SUBJECT:
	SECOND PERIODIC TEST	BIOLOGY
	SET - C	
QP.NO.	VALUE POINTS	SPLIT UP
		MARKS
1.	2 NADH ₂ and 4 ATPs	1
2.	In the mitochondrial matrix	1
3.	In PS I it is P700 and PS II it is P680	1
4.	It shows Kranz anatomy, there are layers of bundle sheath cells around the	1
	vascular bundles that undergo the C ₃ cycle.	
5.	The electrons from NADH and FADH 2 are oxidized by complexes and pass	2
	through carriers in the inner mitochondrial membrane. The final electrons are	
	accepted by oxygen , to form water that helps to remove the hydrogen from the	
	system. This process is phosphorylation in presence of oxygen, so called	
	oxidative phosphorylation.	
6.	Acetyl Co A + OxaloAcetic acid	Citric Acid (½)
	Citric Acid α ketoglutaric acid Succinic Acid Malic Acid	α ketoglutaric acid(½) Succinic Acid (1/2) Malic Acid (½)
	Oxalo Acetic acid	` ′
7.	C3 plants - Phosphoglyceric Acid the first stable compound	1+1
	C4 plants- Oxaloacetic acid	
	C3 Plants require 18 ATP and C4 plants – 18+12= 30 ATP	
8.	Chemiosmotic Hypothesis requires a membrane, a proton pump, a proton gradient and ATP ase.	1+1
	The proton gradient is broken down as protons move from stroma through the	
	F_0 and F_1 channel providing enough energy to cause change in F1 and	
	synthesise ATP molecules with ATP synthase.	
9.	The scheme of transfer of electrons starting from	
	PSII uphill to the electron acceptor,	1/2
	down the electron transport chain	1/2
	to PSI then excitation of electrons,	1/2
	transfer to another acceptor	1/2
	and finally downhill to NADP causing it to reduce to NADPH2 is the Z	
	scheme as it forms a Z shape.	

