PG-CET-BOTANY

PRACTICE BITS ON "PHOTOSYNTHESIS"-2

1) In the chloroplast of bundle sheath cells of C4 plants NADP is reduced by 1) Malic enzyme 2) FNR (Ferredoxin NADP Reductase)	[1]
3) NADP dehydrogenase 4) Malic dehydrogenase	[1]
	[3]
1) C3 Cycle Calvin	
2) C4 CycleHatch & Slack	
3) PhotophosphorylationHill & Bendal	
4) Chemiosmotic HypothesisPeter Mitchell	
3) Which of following is <u>not</u> involved in CO ₂ fixation? 1) C ₂ -Cycle 2) C ₃ -Cycle 3) C ₄ -Cycle 4) CAM-Cycle	[1]
4) Which of the following is not a C4 plant? 1) Wheat 2) Rice 3) Oats 4) All of these	[4]
5) Chloroplast Dimorphism is found in 1) C ₃ plants 2) C ₄ plants 3) CAM plants 4) Both 2 & 3	[2]
6) First CO ₂ acceptor in CAM plants is 1) RuBP 2) OAA 3) PEP 4) Malic acid	[3]
7) Kranz anatomy is found in 1) C ₃ plants 2) C ₄ plants 3) CAM plants 4) Both 2 & 3	[2]
8) CO ₂ fixation & Calvin cycle are separated by time in 1) C ₃ plants 2) C ₄ plants 3) CAM plants 4) Both 2 & 3	[3]
9) CO ₂ fixation & Calvin cycle are separated by space in 1) C ₃ plants 2) C ₄ plants 3) CAM plants 4) Both 2 & 3	[2]
10) RuBisCO is synthesized in/on 1) Stroma of Chloroplast 2) Matrix of Mitochondria 3) RER of Cytoplasm 4) Nucleus	[1]
 11) Which of the following does not occur during cyclic photophosphorylation 1) Photolysis of H2O 2) Evolution of O2 3) Formation of NADPH2 4) All of these 	on? [4]
12) Which plants usually show more Xerophytic adaptations? 1) C3 plants 2) C4 plants 3) CAM plants 4) Both 2 & 3	[4]

 13) Which of the following is low in C4 plants than C3 plants? 1) Productivity 2) Tolerance to abiotic stresses 3) Photorespiration 4) NO of NADPH2 utilized for the synthesis of one glucose during C3 cycle 	[3]
 14) PGA is the first stable compound during C3 cycle which was discovered by Calvin in 1) Chlamydomonas 2) Chlorella 3) Acetabularia 4) Oedogonium 	[2]
 15) C4 plants have better productivity than C3 plants because 1) C4 plants absorb more CO2 2) C4 plants absorb more light 3) C4 plants lack photo respiration 4) C4 plants have more amount of RuBisCO 	[3]
16) Black man's law of limiting factor is applicable to1) photosynthesis2) Respiration3) Protein synthesis4) All of the	[4] se
 17) C4 plants show tolerance to high salinity due to 1) presence of kranz anatomy 2) presence of suberised bundle sheath cells 3) presence of more organic acids 4) the ability to prevent water loss 	[3]
18) H2O2 is formed during Photorespiration in 1) Chloroplast 2) Peroxisomes 3) Mitochondria 4) Glyoxysomes	[2]
19) First reaction in C2 cycle is 1) Carboxylation 2) Oxygenation 3) Reduction 4) Phosphorylation	[2]
 20) In C4 plants, the bundle sheath cells are characterised by 1) having agranal chloroplast 3) having RuBisCO 4) All of these 	[4]
 21) Which of the common event occurs in both Cyclic & Non- cyclic photophosphorylations? 1) ATP formation 2) NADPH2 formation 3) Evolution of O2 4) Photolysis of H2O 	[1]
22) The herbicide DCMU inhibits 1) PS-I 2) PS-II 3) Photolysis 4) Cyclic Photophosphorylation	[2]

23)		-	of both electrons 3) NADP 4) I	•	uring Z-Scheme is	[3]
24)	during Z-	Scheme i		r of both electro PQH2	ons & protons	[1]
25)			-	d during Photore 2 3) Glycolate	•	[2]
26)		asm	f Chloroplast is 2) Peri plastic 4) Lumen of			[3]
27)	•	-			ohorylation occur in 4) Cytoplasm	[1]
28)		-	_	which phase of (3) Regenerati	Сз cycle? on 4) Light phase	[2]
29)		-		o igment in highe 4) β-Carotene	r plants is	[1]
30)			orophyll does i 3) Chl-c 4)	not have phytol Chl-d	tail?	[3]

ALL THE BEST

By

D.R