PG-CET-BOTANY

PRACTICE BITS ON "PHOTOSYNTHESIS"-I	
1) Basic function of photosynthesis is to	[4]
1) release energy 2) release of O ₂	
3) form ATP and NADPH ₂ 4) reduce the CO ₂	
2) Photosynthesis is a	[2]
1) Anabolic, Reductive, exergonic process	
2) Anabolic, Reductive, endergonic process	
3) Anabolic, oxidative, endergonic process	
4) Anabolic, oxidative, exergonic process	
3) Which of the following is not produced during the light phase of photosynthesis?	[1]
1) Glucose 2) NADPH2 3) O2 4) ATP	
4) No of Calvin cycles required to make one molecule of sucrose is 1) 6 2) 12 3) 18 4) 24	[2]
5) Cuscuta shows maximum photosynthesis in	[4]
1) Blue light 2) Red light 3) Green light 4) None of these	1.1
6) Which of the following does not take place during light reaction?	[2]
1) Photolysis of water 2) Evolution of O ₂	[2]
3) CO ₂ fixation 4) Reduction of NADP	
7) Ovugan is a compatitive inhibitar to	[1]
1) $R_{\rm H}$ Bis(Ω 2) PEP Carboxylase 3) Δ TPase 4) Malic enzyme	[±]
I) Rubisco Zji El Carboxylase Sj Ali ase 4) Walle elizylle	
8) Natural limiting factor for photosynthesis in C ₃ plants is	[2]
1) Light 2) CO ₂ 3) Chlorophyll 4) Water	
9) Which serves as both reactant & product in photosynthesis of higher plants?	[3]
1) CO ₂ 2) O ₂ 3) H ₂ O 4) Glucose	
10) Final CO ₂ acceptor of C ₄ cycle is	[2]
1) PEP 2) RuBP 3) Malic acid 4) OAA	
11) Which of the hifunctional enzyme during Photosynthesis?	[1]
1) RuBisCO 2) PEP Carboxylase 3) ATPase 4) Malic enzyme	[-]
(2) Discussion which are not found in bishes also to as	[~]
1) Chlorophyll-a 2) Chlorophyll-b 3) Carotenoids 4) Phycobilins	[4]

13) In Aquarium, green plants are grown to / for 1) increase beauty2) food for fishes3) O2 production4) CO2 production	[3]
 14) No of ATP required for the regeneration of 6 PEP in C4 pathway for 1 glucose are 1) 2 2)12 3) 18 4) 30 	[2]
 15) The enzyme not found in a C3 plant is 1) RuBisco 2) FNR 3) PEP carboxylase 4) ATPase 	[3]
 16) Warburg effect is decrease in the rate of photosynthesis at 1) low CO₂ concentration 2) high CO₂ concentration 3) low O₂ concentration 4) high O₂ concentration 	[4]
 17) Wave length of PAR is 1) 390-760 mm 2) 400-700 nm 3) 500-650 nm 4) 390-760 nm 	[4]
 18) Which of the following would not be a limiting factor in photosynthesis? 1) CO2 2) O2 3) H2O 4) Light 	[2]
19) Which of the following is not C4 plant?1) Wheat 2) Maize 3) Sugarcane 4) Barley	[1]
 20) Both PEP Carboxylase & RuBisco are found in 1) C4 plants 2) CAM plants 3) C3 plants 4) both 1 & 2 	[4]
21) Rubisco belongs to which class of Enzymes?1) Oxidoreductases2) Transferases3) Lyases4) Ligases	[3]
 22) Ultimate donor of both electron and proton during light phase is 1) PQH2 2) NADPH2 3) H2O 4) Plastocyanin 	[3]
 23) PEP carboxylase is found in 1) Chloroplast of bundle sheath cells 3) Chloroplast of mesophilic cells 4) Cytosol of mesophilic cells 	[4]
 24) How many water molecules are involved for the formation of 3 O₂ during Z- scheme? 1) 3 2) 6 3) 9 4) 12 	[2]
 25) Movement of Hth from lumen to stroma through the Fo of ATPase is 1) simple diffusion 2) facilitated diffusion 3) active transport 4) osmostication 	[2] Sis

26) The mobile electron carrier of lumen side in Z-scheme has this metal									
	1) Mn	2) Ca	3) Cu	4) Fe				[3]	
27) 	Which of 1) Ribose	t he fo 2) Er	llowing ythrose	is not a 3) Xylı	pentose s ulose 4) R	sugar? ibulose		[2]	
28) 	In Z-sche 1) Fd to N	me, en IADP	zymatic 2) PQ to	transf PC 3	er of electi 3) PS-I to A	r on occurs bet 4) PS-II to β	ween bheophytin	[1]	
29)	Which co 1) Green	o lour is 2) E	not abs Blue 3	orbed) Red	by Chlorop 4) Indig	o hyll from VIBC o	GYOR?	[1]	
30) <u>(</u>	Couple o 1) Glycine	f amine e, Lysine	oacids fo e 2) Gly	ormed cine, S	during pho erine 3)	otorespiration Serine, Lysine	a re 4) Leucine, Ser	[2] ine	

ALL THE BEST

_{Ву} D.R