DPP DAILY PRACTICE PROBLEMS							
	ass : XIth Subject : BIOLOGY te : DPP No. : 5						
	Topic :- Photosynthesis in Higher Plants						
1.	Light reaction or photochemical phase includes I. light absorption II. water splitting III. oxygen release IV. ATP and NADP formation Select the correct option a) I, II and IV b) I, II and III c) I, III and IV d) I, II, III and IV						
2.	Identify A, B and C shown in a table representing the Calvin cycle In Out A CO2 One glucose BATP ADP C NADPH NADP Choose the correct option A - 5 CO2, B - 18, C - 12 a) A - 5 CO2, B - 18, C - 12 b) A - 6 CO2, B - 12, C - 18 c) A - 4						
3.	Rate of photosynthesis is low in herbs, shurbs as compared to sun plants because a) Herb, shrubs receive mere red light b) Herb, shrubs receive mere blue light c) Herb, shrubs receive mere more green light d) Herb, shrubs receive more white light						
4.	PEPcase has an advantage over RuBisCo. The advantage is a) RuBisCo combines with O ₂ but PEPcase do not b) RuBisCo combines with NO ₂ but PEPcase do not c) RuBisCo conserve energy but PEPcase do not d) PEPcase is present in both mesophyll cells and bundle sheath cells but RuBisCo is not						
5.	Activator of ribulose biphosphate carboxylase oxygenase is a) Mg^{2+} b) Zn^{2+} c) Ca^{2+} d) SO_4^{2-}						
6.	Photolysis of water during photosynthesis occurs with the help of a) PS-II b) PS-I c) Ferredoxin d) Cytochrome						

7.	RuBP + $O_2 \xrightarrow{X} PGA$ + Phosphoglycolate. Identify <i>x</i> in the given equation and choose the a) RuBP carboxylase b) RuBP oxygenase	correct option c) RuBisCo	d) PEP-carboxylase		
8.	 Which one of the following is wrong in relation a) It is a characteristic of C₄-plants b) It is a characteristics of C₃-plants c) It is occurs in chloroplasts d) It occurs in day-time only 	to photorespiration?			
9.	Flow of electrons in non-cyclic photo phosphor a) Unidirectional (from PS-I to PS-II) c) Bidirectional	rylation is b) Amphidirectional d) Unidirectional (from	n PS-II to PS-I)		
10.	Priestley discovered oxygen in a) 1770 b) 1774	c) 1778	d)1782		
11.	Which of the following is wrongly matched? a) Sorghum – Kranz anatomy c) Blackman – Law of limiting factors	b) PEP carboxylase – M d) Photosystem-II – P ₇₍			
12.	Transport of C ₄ acid from mesophyll cells to th a) Cell membrane b) Cell wall	e bundle sheath cell take c) Plasmodesmata	es place through d)Osmosis		
13.	Maximum amount of photosynthesis occurs in a) Light compensation point c) Saturation point	b) O_2 compensation po d) Desaturation point	int		
14.	Sunken stomata are usually found in a) C_3 plants b) CAM plants	c) Insectivorous plants	d)Phanerogams		
15.	I. In C ₃ -plant, Calvin pathway takes place in mesophyll cell II. In C ₄ -plant, Calvin pathway takes place in the mesophyll cell Which of the following statements true? Choose the correct option				
	a) Statement I is incorrect, II is correct c) Both incorrect	b) Statement II is incor d) Both correct	rect, i is correct		
16.	C_3 -plant show optimum photosynthesis at a) High O_2 c) Low O_2	b) High CO ₂ d) High temperature =	- 45℃		

17.	During C ₄ -cycle, the acid formed are						
	I. Picric acid II. OAA						
	III. Malic acid IV. Aspartic acid						
	Select the correct option						
	a) I, II, III and IV	b) II, III and IV	c) I, IV and II	d) I, III and IV			
18.	 18. Consider the following statements regarding photosynthesis. I. ATP formation during photosynthesis is termed as photophosphorylation. II. Kranz anatomy pertains to leaf. III. Reduction of NADP⁺ to NADPH occurs during Calvin cycle. IV. In a chlorophyll molecule, magnesium is present in phytol tail. a) I and II correct b) III and IV are correct c) I and III are correct d) I and IV correct 						
19.	Presence of bundle she a) Xerophytic plants c) C ₄ -plants	ath is a character	ceristic of b) Members of grass family d) C ₃ -plants				
20.	Oxygenic photosynthes a) <i>Chromatium</i>	sis occurs in b) <i>Oscillatoria</i>	c) <i>Rhodospirillum</i>	d) <i>Chlorobium</i>			