Indian Association for the Cultivation of Science School of Biological Science Examination 2020

	se Name: Elements of Pl : BSMS	hotobiology Semester: 3 rd	Course Code: BIS 2101 M.M.: 50
Note:	Attempt all questions.	Section: A (20 marks)	Time: 2:00 hr
	ctive Questions) ill in the blanks)	ontains nucleus.	(02X05=10)
ii.	Chlorophyll a and b found in	n higher plant and	found in some certain kind of
	algae and bacteria.		
iii.	Carotenes are photosynthetic pigments important for		
iv.	Xanthophylls have that make them polar.		
v.	The mobile phase travels up	the stationary phase due to	
Q2. (T	rue/False)		(02X50=10)
1.	TLC depends on separation p	orinciple.	
2.	The separation relies on the relative affinity of compounds towards both the phases.		
3.	On completion of the separation process, the individual components from the mixture		
	appear as spots at respective	levels on the paper.	
4.	Anthocyanins are water soluble.		
5.	Porphyrin is tetrapyrrole ring with chelated magnesium atom at the centre.		
		Section B (20 marks)	
Q3. Wı	rite short note		(05X04=20)
	Beta-carotene Effect of pH on Anthocyanine	B. Anthocyanine	C. Column Chromatography
	\$	Section C (10 marks)	
Q4: Lo	ong answer		(10X01=10)
	Explain the extraction of Chlorophyll from spinach leaves through Chromatography.		