Sardar Patel University M.Sc. Biochemistry, 1st Semester

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External Theory Examination

Monday, 29th October 2018, 10:00 A.M. to 01:00 P.M.

PS01EBIC21: Biochemistry of Horticultural Commodities

Total marks: 70

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Note:	2) Draw	es to right indicate marks. neat and labeled diagram whe	
Q1.		questions:	for the following multiple choice (08)
	(i)	A branch of horticulture demarketing of vegetable is calle	ealing with the production and ed
		(a) Viticulture (c) Pomology	(b)Olericulture(d) Sericulture
	(ii)	Sweet potato is (a)Tuber (c) Fruit	(b)Root (d) Rhizome
	(iii)	Ethylene has horticulture use	s such as
	(···)	(a)Inducing fruit maturi (c) Initiating flowers	the map on colour of
	(iv)	A physiological aging activity in which plant tissues degenerate and ultimately die is called	
		(a) Fruit ripening(c) Maturity	(b)Senescence (d) Both a & b
	(v)	Respiration rate and shelf life (a) inversely related (c) in direct proportion	e are (b) not related with each other (d) fully related with each other
	(vi)	applica elongation by increasing cel (a) Gibberellin (c) Auxin	tions to rosette plants induce stem I division. (b) Cytokinin (d) Ethylene
	(vii)	In tomatoes and pink calledgive	grapefruit a specific carotenoid es them their red color
		(a) anthocyanin (c) zeathanin	(b) lycopene (d) violaxanthine
	(viii)	Solar dehydration is consid	ered as a
	,,	(a) Low-Temperature method (c) Low-moisture method	

briefly discuss about any one metabolic pathway involved in aroma (b) production in fruits or flowers Briefly discuss the pre harvest, harvest and post harvest factors which 06 (a) Q6 effect qualities of horticulture produce? 06 Write an explanatory note on the biochemical constituents which determine the composition and quality of fruits & vegetables? (b) OR Presenting the types of edible coating emulsions, discuss the 06 advantages of edible coatings in postharvest preservation of (b) perishable horticultural produce