EAT No
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## No. of Printed Pages : 2

## SARDAR PATEL UNIVERSITY B. Sc. (Sem-5) Examination

	PLANT PHYSIOLO SATURDAY, 03/11/20	OGY - US05CBOT06 (BOTAN 018, TIME-10-00A.M. TO 01-00	Y) 0 P.M. MARKS-70
Q1CI	hoose the appropriate answer	for the following multiple ch	oice questions (10)
	(i) Plant hormones are also kno	wn as'	
	(a) Growth factors	(b) Growth regulators	
8	(c) Phytohormones	(d) all of these	
	(ii is used on seedless	grape variety to increase the s	size and quality of
	fruit.		
	(a) GA	(b) Auxin	
	(c) Cytokinins	(d) None of these	
	(*** ) NAUL	nhatanariadism:	
	(iii ) Who suggested the term	(b) Hammer	
	(a) Garner & Allard	(d) All of these	- 1
	(c) Bonner	(a) All of these	
	(iv) The pigment that controls	flowering is known as:	
	(a) Phytochrome	(b) Cytochrome	
	(c)Chlorophyll	(d) none of these	
	(v) Who proposed the protein r	nodel of cross linking?	
	(a) Garner	(b) Allard	
	(c) Levitt	(d) none of these	
	( )) Other and and by mathematic	a called:	
	(vi) Stress caused by pathoger	(b) Abjetic stress	
	(a) Biotic stress	(b) Abiotic stress	the second of the second
	(c) Osmotic pressure	(d) None of these	
	(vii) Phytogerontology concern	ned with the study of-	
	(a)Senescence	(b) Vernalization	
	(c) Dormancy	(d) None of these	2
			conco?
-	(viii) Which one of the followin	g is known to accelerate senes	scence:
	(a) GA	(b) Auxin	
	(c ) Cytokinins	(d) ABA	2
	(ix) Name a hormone responsi	ble for delaying senescence:	, "
	(a) GA	(b) Auxin	***
	(c) Cytokinins	(d)ABA	
	(c) Cytokiillis	(d)/ lb/ (	
	(x)Which one of the following	causes oxidative stress in plan	its?
	(a) Air pollution	(b) Heavy metals	
	(c) UV light	(d) All of these	
	7-7		면 #
		(A)	

	Q-2Answer any TEN of the following questions in brief:	(20)
	(i) List out the physiological effects of ethylene on plants.	
	(ii) Define-growth hormone	
	(iii) Comment upon the importance of dark period in plant life.	
	(iv) Give examples of SDP.	
	(v) What is stress?	
	(vi) Write in brief about effect of stress on cell membrane.	
	(vii) What is strain?	30
	(viii) Define- Senescence	
	(ix) What are SAGs?	
	(x) Differentiate between adaptation and acclimation	
	(xi )How ethylene is synthesized?	
	(xii)Write a brief note on vernalization.	
	· · · · · · · · · · · · · · · · · · ·	
	Q-3 With suitable examples and illustrations, give an account of Auxins.  OR	(10)
	Q-3 Discuss the physiological roles of: (a) kinetin in senescence	(05)
	(b) GA in dormancy	(05)
	Q-4 Discuss the physiology of vernelization and its similar and its	
	Q-4 Discuss the physiology of vernalization and its significance in agriculture OR	(10)
	Q-4(a) Distinguish between SDP, LDP and DNP.	(06)
	(b) Write a concise note on phytochrome.	(04)
*	Q-5 With suitable examples, discuss the types of biotic stresses and explain any one typical biotic stress in detail.	
	OR	(10)
	Q-5 Discuss in detail the mechanism of stress resistance in plants	(10)
	Q-6(a) Explaining how senescence is different from ageing, discuss the types of senescen	
	(b) Draw a flow chart of major events taking place during flower senescence.	(05) (05)
	OR	Alexandrates
	<ul><li>Q-6 (a) Write in detail about theories of senescence.</li><li>(b) Write the biological significance of senescence.</li></ul>	(07) (03)
	$\sim \times \sim$	1-21

