Red	nietr	ation no:										http://wv	ww.bputonline.com
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	Ans	swer Question The	No.1		Pharm BRAN( Tim Max Q.C which	nacog CH: B e: 3 h Mark ODE: are c	nosy Phai Jours s: 10 B110 ompu	r-III rma 6 0 6 ilsory	<i>,</i> and	l any	four		
Q1		Multiple Choic	(2 x 10)										
	a)	Rhein is a A) Sterol B) Anthraquinone C) Coumarin D) Phenol.											
	b)	Keller-Kiliani te	•										
	c)	Anthranilic acid A) Tryptophan Ornithine	is an i		diate in t B) Tyro		synth			ıyl ala	nine	D)	
	d)	Under UV radia	ition ae	entian ex	xtract sh	nows .				fluc	oresce	ence.	
	e)	Cassia obovata A) PaltheSenna Dog Senna	is con	nmonly		as							
	f)	Glycyrrhiza belo Liliaceae Pinacee		B) Legu	uminosa		C) S	olana	ceae			D)	
	g)	Strophanthus g A) Violet Cream	•										
	h) i)	Bitter wood obtained from dried stem wood of											
	:\	Gibberalin	, .	3) Synthetic auxin			C) Natural auxin D) Cytokinin						
	j)	Panaxquinqueformatican variety of ginse		•			C) K	orean			D) .	Japanese	
Q2	a) b) c) d) e) f) g) h) i)	Give examples of two cytotoxic compounds obtained from marine source.  Write down the biological source of Senega.  Define the term 'totipotency'.  Write down the biological sources of Trypsin and Pepsin.  How would you detect anthraquinone glycoside in a crude specimen?  Write down the biological source, chemical constituents and uses of Red Squill.							(2 x 10)				
Q3	a) b)	b) Write an account on the nutritional requirements for the in vitro growth of plant											
	c)	tissue.  ) Write down the applications of plant tissue culture in the production of bioactive plant metabolites.										(4)	

Q4	a) b)	Define and classify glycosides with suitable examples. Write down the biological source, microscopic features, chemical constituents and uses of Indian Senna.	(5) (10)			
Q5	a) b)	Describe schematically the 'Sta-Otto' method of isolation of glycosides. Write down the biological sources, chemical constituents and uses of Chirata and Rhubard.	(5) (10)			
Q6	a) b)	Write down the microscopic features of aloe leaf.  Describe the methods of cultivation and collection of Digitalis and Dioscorea.	(5) (10)			
Q7	a)					
	b)	and steroidal aglycones.  Describe schematically the biosynthesis of different amino acids via. shikimic acid pathway.				
Q8	a)	Write down the biological sources, method of preparation, physical properties	(10)			
	b)	and uses of papain and diastase. Write note of poisonous plants of India.				
Q9	a)	Give an account on marine drugs with special emphasis on antimicrobial	(10)			
	b)	agents and marine toxins. Write short note on nutraceuticals.				