M.Phil Science Examination Paper-II : Biochemistry

May-2017

BCH 602 (Recent Advances in Biochemistry)

Time: 3 Hours]			[Max Marks: 70	[Max Marks: 70	
	Instructions:		All questions carry equal marks All questions are compulsory. Illustrate your answers with neat diagrams wherever necessary	11.11	
1.	(A)	Explain th	e important features and characterization of Cultured cells and their applications. OR	[14]	
	(A) (B)		e composition of Serum-free media and its importance. e technique and requirements for Plant tissue culture.		
	(B)	Discuss th	e Cloning and Regeneration for Plant tissue culture.		
2.	(A) (A)	•	ne mechanism and regulation of Enzyme action. <u>OR</u> ne Allosteric regulation with examples. Add its significance.	[14]	
	(A) (B)	Explain tl	ne Ramachandran Plot and emphasize its significance in configurationally ation of Protein. OR		
	(B)	Discuss th	ne conformation of Proteins and add its significance in cellular process.		
3.	(A)	Discuss th	ne mechanism of Oxidative phosphorylation and add its Bioenergetics. <u>OR</u>	[14]	
	(A) (B)	•	Coupled reactions. Add it's Bioenergetic. ne Photophosphorylation and its energetic. OR		
	(B)	Discuss th	ne Biological Transducers and their importance.		
4.	(A)	Discuss the	e interaction of Free Reactive Oxygen Species and Cellular Antioxidants. OR	[14]	
	(A) (B)		e mechanism of Signal Transduction and its control. arious Immunoglobulins and their role. OR		
	(B)	Describe tl	ne types of Fermenters and their applications.		
5.	(A) (B) (C) (D)	Describe P Discuss the	cany Two coduction of Secondary Metabolites and its significance. Frimary cell culture and its advantages. The Monoclonal antibody and its production. The mechanism of microsomal ETS.	[14]	
			•		