

The West Bengal University of Health Sciences MBBS 1st Professional Examination (New Regulation), March 2021

Subject: Biochemistry		Full Marks: 100
Paper : 11		Time: 3 hours
	Attempt all questions. The figures in the margin indicate full mark	a.
	a)/What is a balanced diet? What is the nutritional importance Discuss the protein-energy malnutrition with special reference to kw	of thetary proteins? vashiorkor disease. 3+6+6
	b) Explain the replication of a DNA molecule in the context of initial termination in prokaryotes with suitable diagrams. Enumerte the DNA polymerase I, II & III.	tiation, clongation and e differences between 10+5
	 a) Expand the term PCR, Describe different steps for a PCR reaction uses of the PCR. 	on. Enumerate any four
	b) Describe the structural characteristics of an immunoglobulin manual diagram. Explain the functional differences between T cell immunity.	nolecule in general with and B cell mediated 5+5
	c) Enumerate the different modes of repair of DNA damage is mechanism of any one of them with the disorder arising due	to the defects on that 4+4+2
	pathway. 3. Write a short notes on the following:	2 x 5
	Tumour markerby Cell cycle.	5 x 4
	4. Explain the following statements:	
	Macrophages show beneficial effects by generating free radio b) Endocrinal disorders may predispose to obesity. Deficiency of ascorbic acid causes fragility of blood vessels. d) Under some conditions immunity causes damaging effects. e) Proto-oncogenes are regulatory genes	