

## The West Bengal University of Health Sciences MBBS 1st Professional Examination (New Regulation), June 2022

		Full Marks: 100
prect: Bioc	chemistry	Time: 3 hours
per : II	Attempt all questions. The figures in the margin indicate	
1.	a) A 6year old child was brought to the hospital with and pain in bones. On examination, he was anemic, ha legs and swelling of costochondral junction. Labor calcium: 8.2 mg%, Serum phosphorous: 2.8 mg%, serum with the likely diagnosis and pathogenesis of the How the deficient element in this patient is syntax.  b) Differentiate between proto-oncogenes and onco oncogenes can be converted into oncogenes. Explain of genome.	complaints of slow growth d frontal bossing, bowing of ratory results were: Serum m ALP: 720IU/L. 3+4+8 condition? Richard in healthy child?
3. W	i) Monoclonal antibodies ii) Restriction endonuclease b) Write down the principles and tools of recombinan c) Classify Hormones. Explain the mechanism of acti Vrite a short notes on the following: Small ribonucleic acids (sRNA). Protein energy malnutrition.	on of Group 2 Hormones.  7+3  2x5
(A)	Hormones may be related to different types of can Apoptosis is tightly regulated.  Low carbohydrate diet promotes weight loss.  Oxidative damage by xenobiotic metabolites could vitamin D acts as a hormone.	
the last M b) Ai	hoose the correct option for each of the following: ich one of the following is the most important southours of a 48 hour fast.  Juscle Glycogen mino acids actate ver glycogen.	rce of blood glucose during

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REJ		The second second
	ng sation :	
	ii) Choose the vitamin involved in posttranslational modification :	
	(v) Folic acid	
	d) Pyridoxin	
	iii) All Plasma proteins are synthesized in liver Except	
	a) Albumin	
	-b) Ferritin	
	The standarding	
	iv) In addition to Taq Polymerase, PCR requires all Except:	
	a) Primase	
	b) Primers	
	c) A template DNA	
	d) Deoxy ribonucleotide triphosphates	
	v) Hormone mainly involved in sodium and potassium balance:	
	a) Certisol.	
	b) Aldosterone.	
	c) Adrenalin.	
	d) Glucagon.	
	vi) In the "Lac operon' concept. Which of the following is a protein:	
	a) Operator	
	b) Repressor	-
	c) Inducer	
	d) Promoter	
	vii) Xeroderma pigmentosa occurs due to defective	
	a) Mismatch repair	3
	b) Base excision repair	
	c) Nucleotide excision repair	
	d) Double stranded break repair	
	viii) All the following except one aid in protein folding	
	Molten globule	
	b) Chaperone proteins	
ı.	c) Cis-trans isomerase	
ь.	A) Peptidyl transferase	
в	ix) Transfection in recombinant DNA tool	
в	ix) Transfection in recombinant DNA technology involves	
п	a) Isolation of desired gene.	
и	b) Formation of chimeric DNA.	
ы	c) Isolation of vector.	
ш	Uptake of Chimeric DNA.	
ш	x) The separation of male 1.1.	
	x) The separation of molecule based on their size, shape and molecule by:	ular weight is
4	done by:	The trongitt is
	a) Ion exchange chromatography	
	Gel filtration chromatography	
	c) Adsorption chromatography d) Affinity chromatography	
	- Thomatography	