The West Bengal University of Health Sciences M.D. (Biochemistry) May - June, 2022 Examination

Paper IV

Full Marks:100 Time : 3hours

Attempt all questions

1	What is the molecular basis of Cancer ? What are the biochemical changes in ca	ancer
1.	cells.	5+5
~		10
2.	Discuss the types of errors in laboratory testing.	in a
3.	Explain how you will formulate a diet to compensate the nutritional deficiencies	an he
	child suffering from protein energy malnutrition. Describe the laboratory tests that ca	
	performed for monitoring a case of protein energy malnutrition.	6+4
4.	Write short notes on :	5+5
	a) LJ Plot	
	b) ROC Plot	
5.	Discuss molecular defect and diagnosis of sickle cell anemia. Why is it prevale	ent in
	regions endemic to falciparum malaria.	+3+3
6	Compare the advantages and disadvantages of electrolyte measurement in body	fluids
0.	using the flame photometry and ion selective electrode methods. Describe the impor	tance
	of measurement of ionized calcium and corrected calcium in blood.	6+4
	of measurement of fomzed calcium and confected current in amniocentesis and cho	rionic
7.	Compare the advantages and disadvantages between the amniocentesis and chore	folate
	villus biopsy methods for determining in utero fetal defects. Explain why	7+3
	deficiency may lead to neural tube defects in newborns.	
8.	Write short notes on:	5+5
	a) alpha 1 antitrypsin deficiency	
	b) Mitochondrial myopathies	
9	Discuss pancreatic function tests.	10
). Write short notes on:	5+5
10	a) Hepatic encephalopathy	
	b) Alcoholic liver diseases and their complications	
	D) AIGUIUITO IIVOI UISCASOS and their compressions	