M.B.B.S. [1st Prof.] BF/2007/11

V

Biochemistry - B

MI.MI.: 50		Time: 3 Hours
Note : Atte	mpt all questions.	
1. a.	Bring out the differences of replication between Eukaryotes in a tabular form.	Prokaryotes and [5]
b.	State the normal Serum level of Calcium. Compare major factors which effectively regulate blood Calc	the action of thre
2. a.	Mention the buffer systems of plasma. List the disadvantages of these buffer systems.	advantages and
b. с.	Explain how measurement of bilirubin and othe blood and urine can distinguish different types of	r bile pigments in Jaundice. [4]
с.	Briefly describe the role of Glutathione as detoxify	ing agent. [3]
3. Write	e short notes on:	[4x2.5=10]
a.	Human genome project.	
b.	Synthetic purine analogues and their clinical signif	icance.
c.	HPLC.	
d.	Normal Serum electrophoretic patterns and its alte syndrome. (labeled diagrams only].	ration in nephroti
4. Ansv	ver briefly:	
a.	Blotting techniques and their significance.	[4]
b.	Biochemical role of Zinc.	[3]
c.	Synthesis of Thymine Deoxyribonucleotides.	[3]
5. a.	Explain the principle of Polymerase Chain Reaction	n with the aid of a
	diagram.	[5]
b.	Define the following:	[5]
	i) Gene therapy.	
	ii) Introns.	
	iii) Exons.	
	iv) Hypokalemia.	
	v) Half life of radioactivity.	