Mansoura University
Faculty of Medicine
Medical Biochemistry dept.

Sheet Exam

First year

Student name: Mention by name only :-		Student number:		
1-	Two examples of milk proteins.			
	a)			
	b)		4	
2-	Two types of lipids of milk.			
	a)			
	b)			
3-	Two components of whey of milk clot.			
	a)			
	b)			
	As regards DNA extraction		4	
	SDS act by			
<u></u>	Ethanol causes		,	
-	High concentration of salts (2M NaCl)	caus	es	

Aim of DNA extraction is



Mansoura University Faculty of Medicine Medical Bioch. Dep.

First year -Final Reset Exam

19/09/2011

Total marks: 75

Time allowed: 3 hours

Answer the following questions:-

1- Explain the following:-

a-Four applications of PCR

b- Nutritional classification of amino acids

c- Post-translation modifications of proteins.

d-Okazaki fragments

e-Three Characteristics of genetic codons

2- Give a short note on each of the following:-

a- Oligomeric proteins.

b- Mutation: types& causes

c- Three Posttranscriptional modification of mRNA.

d- Hydrophobic bonds in protein structure.

e-Two functions of histones

3- Analyze the following:-

a-Sources of reactive oxygen species ·

b- Four Co- dehydrogenases

c- Four functions of nucleotides

d- Fractionation of proteins.

e- Mitochondrial DNA

4- Describe each of the following :-

a- Mutarotation

b- Biomedical importance of dermatan sulfate

c- Charged polar amino acids

d-Biological importance of lipids.

e-Prevention of rancidity.

5- Summarize ar direvise :-

a- Activation of proenzymes.

b- Group specificity of enzymes.

c- Functions of folic acid.

d- Functions of vitamin A.

e- Gene therapy.

6- Compare between each pair of the following :-

a- Folloculation & Coagulation of proteins.

b- Essential & Non essential fatty acids.

c- Proteoglycans& Glycoproteins(four aspects only).

d- Ribozymes & Antienzymes.

e- House keeping genes & tissue specific genes.

7- Enumerate Two functions for each of the following :-

a- Dextran

b- Lipoproteins

c- Cerebrosides.

d- Tocopherol.

e- 1,25 dihydroxycholecaliferol.

(2marks)

(2marks)

(2marks)

(3marks)

(3marks)

(2marks)

(4marks)

(3marks)

(2marks)

(2marks)

(2marks each)

(2marks each)

(2marks each)

(2marks each)

(2marks each)

GOOD LUCK