# STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI-86 (For candidates admitted during the academic year 2004 –05 & thereafter)

**SUBJECT CODE: CH/AO/BC33** 

**REG.NO** .....

## **B.Sc. DEGREE EXAMINATION, NOVEMBER 2008** THIRD SEMESTER

COURSE PAPER TIME	: ALLIED OF BIOCHEM : 30 MINUTI	ISTRY			MA	XX.MARKS: 30
			SECTIO	N – A		(30x1=30)
TO BE ANSWERED ON THE QUESTION PAPER ITSELF. Answer all the questions.						
I Ch	oose the correct a	nswer:				
1.	Lewis acid is an a) electron donor c) hydrogen dono		<ul><li>b) electron acceptor</li><li>d) hydrogen acceptor</li></ul>			
2.	The extra cellular a) $Cl^-$	fluid has or b) $HPO_4^2$		llowing as c) $HCO_3$	-	ant anion. d) $SO_4^{2-}$
3.	Maltose is a a) non reducing monosaccharide c) non reducing disaccharide b) reducing monosacchari d) reducing disaccharide					
4.	Which one of the a sucrose	following is b) maltose		from the res		d) glucose
5.	Which of the folloa) phospholipids	-	n saponifial glycerol	-	esterol	d) spingolipids.
6.	In anaerobic hydroa) pyruvate	ogen transfe b) lactate	_	athway the tyl CoA		is esphoenol pyuvate
7.	In TCA cycle the a a) 12 ATP	following is b) 15 ATP		c) 11 AT	P and 1 GTI	d) 8 ATP
8.	Inactive form of a s) coenzyme	n enzyme is b) exoenzy		c) endoer	nzyme	d) zymogen
9.	Which one of the a) adrenaline	following is b) thyroxin	-	hormone c) estroge	en	d) insulin
10.	The number of hyda) 2	drogen bond b) 3	ds between	guanine ar	nd cytosine	in DNA is d) 5

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30.

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## B.Sc. DEGREE EXAMINATION, NOVEMBER 2008 THIRD SEMESTER

COURSE : ALLIED OPTIONAL PAPER : BIOCHEMISTRY

TIME : 2½ HOURS MAX.MARKS : 70

#### SECTION - B

### **Answer any five questions:**

(5x6=30)

- 1. How the pH on blood is maintained?
- 2. How will you separate a mixture of amino acids using TLC?
- 3. What are the various steps involved in the glycogenesis?
- 4. Define iodine value. How the iodine value of an oil is determined explain.
- 5. Give an account of the classification of hormones.
- 6. Write a note on the types of RNAs and their functions.
- 7. Give the source and functions of thyroxine and insulin.

#### **SECTION - C**

#### Answer any two questions:

(2x20=40)

- 8. Give the complete sequence of TCA cycle. How many ATPs are formed on cycle.
- 9. a) Using column chromatography. How a protein mixture can be separated explain.
  - b) How di and polysaccharides are digested and absorbed.
- 10. a) What are the various factors affecting the enzyme reaction and how.
  - b) What are the advantages of TLC.
- 11. a) Give a neat sketch of DNA proposed by Watson and Crick and give the salient features of their structure.
  - b) Write a note on the digestion and absorption of protein.