PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

MSc SSc DEGREE EXAMINATION MAY 2019

(Second Semester)

Branch - CLINICAL NUTRITION & DIETETICS

CLINICAL BIOCHEMISTRY

Time:	Three Hours	Maximum: 75 Marks
SECTION-A (10 Marks!		
		LL questions carry EQUAL marks $(10 \times 1 = 10)$
1	Name the cycle in which Pyruvate is oxidised to Co_2 and H_20 under aerobic condition.	
	(i) HMP shunt (iii) Glycogenolysis	(ii) Glycolysis(iv) Citric acid cycle
2	The hormone inhibits gluconeogo (i) Insulin (iii) Epinephrine	enesis is (ii) Glucagon (iv) GH
3	Phosphatidyl inositaol is otherwis (i) Phosphatidases (iii) Lipositol	se called as (ii) Cephalin (iv) Licithin
4	Structural formula of cholesterol (i) $C_{27}H_{42}0$ (iii) $C_{27}H_{47}0$	is . (ii) $C_{27}H_{46}O$ (iv) $C_{27}H_{43}O$
5	In an iso-electric point amino aci (i) cation (iii) zwitter ion	d remains as (ii) anion (iv) no correlation
6	In urea cycle N-Acetyl glutamate (i) enzyme (iii) enzyme activator	act as an (ii) non factor (iv) enzyme inhibitor
7	In t-RNA t stands for (i) translating (iii) transcripting	(ii) transforming(iv) transfer
8	is the direct manipulation of DNA using techniques in the laboratory to alter genes in organisms. (i) Genetic engineering (ii) Nutri genetics (iii) Nutri Genomics (iv) Neogenetics	
9	Hipporic acid test is used to find (i) Excretory (iii) Storage	out the function of liver. (ii) Secretory (iv) detoxification
10	Echo cardiography is essentially_ (i) ultrasound of heart (iii) another name of TMT	(ii) echoing sound of heart (iv) recording heart beats

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SECTION - B (35 Marks)

Answer ALL Questions ALL Questions Carry EQUAL Marks (5x7 = 35)

Explain TCA Cycle.

OR

Discuss the hormonal influences of Carbohydrate metabolism.

Illustrate the metabolism of Ketone bodies.

OR

State the functions of lipo proteins and its significance.

Explain on creatine synthesis and brief the regulations.

OR

Discuss on Acid-base balance.

Illustrate on DNA Replication.

OR

Sketch out the diseases of genetic origin.

Classify on oncogenic markers and give its clinical uses.

OR

Explain any two radiological investigations.

SECTION - C (30 MarksI

Answer any **THREE** Questions **ALL** Questions Carry **EQUAL** Marks (3 x 10 = 30)

Determine how the enzymes are used in clinical diagnosis.

Elucidate on the metabolism of lipids.

Enumerate the dynamic aspects of protein metabolism.

Genetic engineering - design our own evolutionary progress - justify.

Analyse the tests used to estimate the increased risk of cardio vascular diseases.

Z-Z-Z END