PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

MSc DEGREE EXAMINATION DECEMBER 2022

(Third Semester)

Branch - BIOCHEMISTRY

ADVANCED CLINICAL BIOCHEMISTRY

T	Time: Three Hours	Maximu	m: 50 Marks
	SECTION-A		
	Answer ALL		(5 - 1 - 5)
	ALL questions carry	EQUAL marks	$(5 \times 1 = 5)$
1	level in amniotic fluid is used to	o assess the fetal maturity.	
-	(i) Bilirubin & L/S (ii)	AFP & L/S	$\mathcal{A}^{(k)}(x) = \mathcal{A}_{k}(x) + \mathcal{A}_{k}(x)$
) All the above	
2	Name the abnormal condition in which s	mall amount of urine excr	eted due to
<i>_</i>	shock or kidney damage.		
	(i) Polyuria (ii)	Oliguria	
	(iii) Dysuria (iv) None	
3	In Grave's disease TSI mimics the role of	f	
	(i) TRH (ii)		L
	(iii) TSH (iv) None of the above	
4	An increase in LDH - 5 isoenzyme is se	en in the following except	•
4	(i) Acute hepatitis (ii)		1.2
) Breast carcinoma	
_	()		
5	Which enzyme deficiency occurs in Hyp) Acid lipase	
•	(1) —-F -F 1	Apoprotein lipase	
	(iii) Cholesterol lipase (iv) Tipopiotom ispuso	
	CT CTION D	(15 Marilea)	
	SECTION - B Answer ALL		
	All Questions Ca	rry EQUAL Marks	$(5 \times 3 = 15)$
	ALL Questions ou	ily in Quantum and	
6	a Organize the Principle, Procedure an	d Application of RA Test.	
	OR		e e e e e e e e e e e e e e e e e e e
	b Explain Prothrombin Time and give	its clinical significance.	
7	a Sketch an account on Sputum and its	biochemical investigation	
	OR		
	b Illustrate the clinical significance of	stool examination	
8	a Analyze the clinical importance of p		
ο.	OR		
	b Discuss the general principles of hor	monal assay.	
0	a so to to contain a second on		
9	a Justify the role of Troponin as cardia OR		
	b Outline the process of free radical for	ormation.	
10			
10) a Write in brief about mucopolysacch OR		
	b Evaluate the inborn errors of branch	ed chain amino acids.	
			Cont

SECTION -C (30 Marks)

Answer ALL questions
ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11 a Determine the immunologic test for pregnancy.

OR

- b What is amniotic fluid? Interpret its composition and diagnosis procedure.
- 12 a Elucidate the clinical significance of any four abnormal constituents of urine.

OR

- b Analyze the composition of Kidney stones and its method of analysis.
- 13 a Develop a note on the following:
 - a) Diabetes insipidus

b) SIADH

C) Hypopitutarism

OR

- b Differentiate hyper and hypothyroidism.
- 4 a Categorize the Gastric function tests.

OR

- b Predict the enzyme pattern in myocardial infarction.
- 15 a Enumerate in detail about the disorders of Glycogen storage.

OR

b Justify the risk factors, biochemical findings and management of Atherosclerosis.

Z-Z-Z

END