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PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

MSc DEGREE EXAMINATION DECEMBER 2023

(Third Semester)

Branch - BIOCHEMISTRY

ADVANCED CLINICAL BIOCHEMISTRY

Time: Three Hours			Maximum: 50 Marks	
SECTION-A (5 Marks) Answer ALL questions ALL questions carry EQUAL marks (5 x 1 = 5)				
1	(i)		(ii) Study of blood draw (iv) Arterial puncture	wing
2	(i)	Thich condition can be diagnosed Diabetes Asthma	d through gastric analys (ii) Stomach ulcers (iv) Infections	is?
3	(i) (ii	lentify the reason for Grave's dis) Hypothyroidism ii) Hyperinsulinism	(ii) Hyperpituitarism(iv) Hyperthyroidism	
4	Find the following disease that causes increase in serum LDH ₁ related to LDH ₂ . (i) Muscular dystrophy (ii) Leukemia (iii) Myocardial infarction (iv) Hepatitis			
5	Which enzyme deficiency leads to Phenylketonuria? (i) Homogentisate oxidase (ii) Phenylalanine hydroxylase (iii) Tyrosinase (iv) Transaminase			
SECTION - B (15 Marks) Answer ALL Questions ALL Questions Carry EQUAL Marks (5 x 3 = 15)				
6	a b	Explain the test for Rheumatoid arthritis. OR Determine erythrocyte sedimentation rate.		
7	a b	Discuss about the biochemical investigation of sputum. OR Illustrate the procedure for the collection of urine specimen.		
8	a	Outline the clinical significance of steroid hormones. OR Justify the general principles involved in hormone assay.		
9	b a	Classify the types of fatty liver. OR		
10	b a b	Discuss on the types of Muco OR State on Neimann pick diseas	ppolysaccharidosis.	

SECTION -C (30 Marks)

Answer ALL questions ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11 a Elucidate the procedure for collection and processing of blood.

- b Interpret on the analysis and diagnostic importance of CSF.
- 12 a Determine the procedure for the examination of gastric contents.

- b Recommend a procedure for the analysis of stone.
- 13 a Formulate the laboratory analysis of hyper and hypo functions of adrenal hormones.

- b Elucidate on the functions and analysis of thyroid hormones.
- 14 a Classify the renal function test and explain about clearance test.

- b Predict the enzyme patterns in hepatobiliary diseases.
- 15 a Categorize on the types, clinical features and complications of diabetes mellitus.

OR

b Interpret on the risk factors, findings and management of atherosclerosis.

Z-Z-Z

END