2020

PHYSIOLOGY — HONOURS

Paper: SEC-A-2

(Clinical Biochemistry)

Full Marks: 80

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Group - A

1. Answer any ten questions:

 2×10

- (a) What is Oral Glucose Tolerance Test (OGTT)?
- (b) What does low and high haptoglobin value indicate?
- (c) What is Bodansky unit?
- (d) What are the sources of amylases?
- (e) Name the non-pancreatic hormones responsible for blood glucose regulation.
- (f) What do you mean by Ketonuria?
- (g) What is myocardial infarction?
- (h) What do you mean by endemic goiter?
- (i) What are HDL and LDL?
- (j) Distinguish between conjugated and unconjugated bilirubin.
- (k) What do you mean by hypoglycemia and hyperglycemia?
- (l) Why excess Ketone bodies are produced during starvation?

Group - B

2. Write short notes on any four:

5×4

- (a) Pathophysiological significance of Urea and its normal value
- (b) Thyroid profile in health and disease
- (c) Pathophysiological significance of SGPT
- (d) Diabetes Mellitus
- (e) Pathophysiological significance of serum amylase
- (f) Normal value and pathophysiological significance of Uric acid.

Please Turn Over

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(2)

Group - C

Answer any four questions.

3.	(a)	What is the pathophysiological significance of SGOT?				
	(b)	Explain the term 'jaundice'.				
	(c)	What are the causes of diabetic ketoacidosis and ketosis?	3+4+3			
4.	(a)	What are the different isoenzymes of creatine Kinase (CK)?				
	(b)	What is the pathophysiological significance of creatinine?				
	(c)	State the role of serum enzymes in the assessment of liver function.	3+3+4			
5.	(a)	What do you understand by the term 'lipid profile'?				
	(b)	Discuss the changes in lipid profile in cardiovascular diseases.	4+6			
6.	Disc	uss the pathophysiological significance of Cardiac Troponins and Regan isoenzymes.	5+5			
7.	Write	Write short notes on: (a) Hyperbilirubinemia (b) Pathophysiological significance of serum proteins. 5+5				
8.	(a)	What are different isoenzymes of Lactate dehydrogenase (LDH)?				
	(b)	Write the pathophysiological significance of LDH.	4+6			
9.	(a)	What do you mean by thyroid function test?				
	(b)	What are the clinical features of hypothyroidism?				
	(c)	Write down the functions of β -glucuronidase.	2+5+3			