MEDICAL LABORATORY AND MOLECULAR DIAGNOSTIC TECHNOLOGY/MEDICAL LABORATORY TECHNICIAN

QP: Medical Laboratory Technician

Paper: MDT/MLT-VC-4026

(Biochemistry—IV)

Full Marks: 60

Time: 3 hours

The figures in the margin indicate full marks for the questions

	(a)	Chemical messengers secreted by ductless glands are called
	(b)	Goiter is caused by deficiency of
	(c)	hormone is released by the posterior pituitary.
	(d)	Metabolic rate in mammals is controlled by
	(e)	Renal threshold level for glucose is
2A	141	4 (Turn Over)

- (f) Elevation of _____ is a sensitive indicator of alcoholic liver disease.
- (g) The precursor for synthesis of steroid hormone is _____.
- 2. Answer the following questions: $2\times4=8$
 - (a) Why is hormone called chemical messenger?
 - (b) Name any one female and one male reproductive hormone. 1+1=2
 - (c) What is the importance of serum albumin in liver disease?
 - (d) Mention different types of jaundice.
- 3. Answer any three from the following questions: 5×3=15
 - (a) What are some metabolic functions affected by insulin?
 - (b) Write a brief note on routine urine examination.
 - (c) Write a note on atherosclerosis.
 - (d) How is ADH related with diabetes insipidus?
 - (e) What are the properties of the receptors for hydrophilic hormones?

- **4.** Answer any *three* from the following questions: 10×3=30
 - (a) What are thyroid hormones? Where is thyroid hormones produced? What are the actions of thyroid hormones?

 2+3+5=10
 - (b) What are bile pigments? Write in detail about the bile pigment metabolism. 1+9=10
 - (c) What are the different functions of kidney? Write a detailed note about the urea and creatinine clearance tests.

 4+3+3=10
 - (d) What are signalling molecules? What are the types of cell signalling? Mention the general characteristics of hormone.

 1+3+6=10
 - (e) What are isoenzymes? How does isoenzyme help to relate the disease diagnosis? Write a note on lactate dehydrogenase. 1+3+6=10