

**BACHELOR OF MEDICAL LABORATORY TECHNOLOGY
SIXTH SEMESTER
BIOCHEMISTRY VI
BMLT – 603 [SPECIAL REPEAT]
[USE OMR SHEET FOR OBJECTIVE PART]**

Duration: 3 hrs.

Full Marks: 70

Time: 30 min.

(Objective)

Marks: 20

Choose the correct answer from the following:

1×20=20

- Which hormone mostly affects sleep
 - Thyroid hormone
 - Growth hormone
 - Insulin
 - Glucagon
- Cushing's syndrome is due to
 - ACTH
 - ADH
 - MSH
 - TSH
- Which hormones responsible for fight or flight response
 - Insulin
 - Glucagon
 - Epinephrine
 - Cytosol
- Which adrenergic receptor causes vasoconstriction.
 - α_1
 - β_1
 - β_2
 - α_2
- The half-life of insulin receptors.
 - 6-12 hours
 - 4-12 hours
 - 4-8 hours
 - 6-8 hours
- The gene, namely ___ causes B-cell lymphoma by preventing programmed cell death.
 - bcl-2.
 - bcl-3.
 - bcl-1.
 - bcl-4.
- Tumor marker for oncofetal antigens is
 - CEA
 - AFP
 - CA-125
 - All of the above.
- The PSA protein can exist in the blood by itself is known as
 - free PSA
 - bound or complexed PSA
 - Both a and b
 - None
- Adulterants in milk and curd
 - . dyes
 - urea
 - water and starch powder
 - oil
- What can be the AFP Level for the diagnostic of HCC.
 - <200 ng/ml
 - >300 ng/ml
 - >400 ng/ml
 - <100 ng/ml

(Descriptive)

Time : 2 hrs. 30 min.

Marks : 50

[Answer question no.1 & any four (4) from the rest]

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| 1. Explain the sex hormones in details. | 10 |
| 2. Define hormones and its classification in details.
Write the biochemical functions and regulation of thyroid hormone | 5+5=10 |
| 3. Describe the hormones of adrenal cortex. | 5+5=10 |
| 4. Write short notes on Epinephrine and Insulin. | 5+5=10 |
| 5. Define tumor and tumor markers. Discuss the types of tumors.
Explain the classification of tumor markers. | 10 |
| 6. What are Adulterants. Write the purpose of food adulteration. Discuss its needs and methods. Explain the types and effects of food adulteration. | 5+5=10 |
| 7. Quality Control must be practical, achievable & affordable. Elaborate it. | 10 |
| 8. Explain about L-J CHART [LEVEY JENNINGS] AND WESTGARD RULES. | 3+3+4
=10 |

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