

BACHELOR OF SCIENCE (LABORATORY SCIENCES) (CBCS - 2019 COURSE)
B.Sc. (Lab Sci) Sem-IV :SUMMER- 2022
SUBJECT : CLINICAL ENDOCRINOLOGY-I

Day : Tuesday
Date : 26-07-2022

S-22567-2022

Time : 10:00 AM-12:00 PM
Max. Marks : **20**

N.B.:

- 1) There are **THREE** sections as:
Section – A – Objectives Type Questions = 20 marks.
Section – B – Long Answer Questions = 20 marks.
Section – C – Short Answer Questions = 20 marks.
- 2) Section – A is given on **SEPARATE** sheet and has to be answered on same sheet. This sheet should be completed within the first **20** minutes of starting of the examination. This sheet with Section A only will be collected by Supervisor.
- 3) You have to make such kind of mark in the box of the appropriate answers.
- 4) There is no negative marking.

Seat No. _____

SECTION – A

MCQs:

[10 × 2 = 20]

1. Which of the following cells of pancreatic islets of Langerhans secrete Insulin?
 - a) α – cells
 - b) F – cells
 - c) β – cells
 - d) δ - cells
2. Which of the following International Standards describes requirements for medical laboratory?
 - a) ISO 17025
 - b) ISO 15189 : 2012
 - c) ISO 17034
 - d) None of the above
3. Which of the following clause of NABL 112 describes Personnel requirements?
 - a) 5.1
 - b) 5.2
 - c) 5.4
 - d) 5.5
4. All of the following techniques can be used for measurement of hormones **EXCEPT**:
 - a) Radio immunoassay
 - b) ELISA
 - c) Spectrophotometry
 - d) Chemiluminescence

P.T.O.

5. Serum calcium is regulated by which of the following hormone?
- a) Thyroid hormone
 - b) Insulin
 - c) Parathyroid hormone
 - d) None of the above
6. Clause 5.6 of NABL 112 describes which of the following?
- a) Personnel
 - b) Pre-examination process
 - c) Ensuring quality of examination results
 - d) Release of reports
7. Which of the following hormone regulates Basal Metabolic Rate?
- a) Thyroid
 - b) Parathyroid
 - c) Insulin
 - d) All of the above
8. All of the following scopes are included in NABL 112 **EXCEPT**:
- a) Clinical Biochemistry
 - b) Clinical Pathology
 - c) Immunology
 - d) Genetics
9. All of the following hormones are derivatives of amino acids **EXCEPT**:
- a) Progesterone
 - b) Thyroxine
 - c) Adrenaline
 - d) Noradrenaline
10. All of the following are used to assess thyroid function **EXCEPT**:
- a) Tri-iodothyromine
 - b) Thyroxine
 - c) Parathyroid hormone
 - d) Thyroid stimulating hormone

Total Marks Obtained: _____

Signature of Invigilator

Signature of Examiner

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- 1) There are **THREE** sections as:
Section – A – Objectives Type Questions = 20 marks.
Section – B – Long Answer Questions = 20 marks.
Section – C – Short Answer Questions = 20 marks.
- 2) Section – B has four long answer questions and any **TWO** questions have to be answered.
- 3) Section – C has six short answer questions and any **FOUR** questions have to be answered.
- 4) Answers to both the sections should be written in **SAME** answer book.

SECTION – B

Long Answer Questions:

Attempt **ANY TWO** of the following: **[2 × 10 = 20]**

- a) Define hormones. Classify them with suitable examples. Describe the mechanism of action of Group I hormones.
- b) What is NABL? Discuss the requirement as per NABL 112 for accreditation of laboratory.
- c) Enumerate the hormones secreted by thyroid glands. Describe their synthesis. Add a note on their function.
- d) Discuss the disorders of parathyroid gland. Add a note on tests done to assess parathyroid function.

SECTION – C

Short Answer Questions:

Attempt **ANY FOUR** of the following: **[4 × 5 = 20]**

- a) Mechanism of hormone action of Group II hormone.
- b) Metabolic effects of Insulin.
- c) Benefits of laboratory accreditation.
- d) Amylase and Lipase : Normal range and clinical significance
- e) Thyroid function tests.
- f) ELISA and Chemiluminescence : Principle and application.

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