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SUBJECT CODE NO:- B-2176
FACULTY OF SCIENCE AND TECHNOLOGY
B.Sc. S.Y (Sem.-IV) Examination OCT/NOV 2019
Zoology Paper- XII
Biochemistry and Endocrinology

[Time: 1:30 Minutes]

[Max.Marks:50]

Please check whether you have got the right question paper.

- N.B
- i. Attempt all questions.
 - ii. Illustrate your answers with suitable well labelled diagram.
- Q.1 Explain in detail factors affecting enzyme action. 20
 Describe pathway of glycolysis. 20
 OR
- Q.2 Explain in detail structure and functions of adenohipophys. 20
 Write short notes on (any four) 20
 OR
- a. Deamination
 - b. Deficiency of vitamins
 - c. Islets of Langerhans
 - d. Functions of neurohipophys
 - e. Functions of adrenal gland
 - f. Hormones of thyroid gland
- Q.3 Multiple choice questions. 10
1. Polysaccharides are _____.
 a) Polymers b) Acids
 c) Proteins d) Oils
 2. Calcitonin is synthesized in _____.
 a) Parathyroid gland b) Thyroid gland
 c) Pars intermedia d) Adrenal cortex
 3. Which bond is present in the primary structure of protein?
 a) Ester b) Hydrogen
 c) Ionic bond d) Peptide
 4. Oxidation of fatty acids occurs in _____.
 a) Cytosol b) Matrix of mitochondria
 c) Inner mitochondrial membrane d) On the microsomes

5. Preformed vitamin A is Supplied by
 - a) Milk , fat and liver
 - b) All yellow vegetables
 - c) All yellow fruits
 - d) Leafy green vegetables

6. Richest source of vitamin D is _____.
 - a) Fish liver oil
 - b) Margarine
 - c) Egg yolk
 - d) Butter

7. Insulin is secreted by
 - a) α cells of Langerhans
 - b) β cells Langerhans
 - c) Kupffer cells
 - d) Gall bladder

8. A carrier molecule in the citric acid cycle is _____.
 - a) Acetyl Co-A
 - b) Citrate
 - c) Oxaloacetate
 - d) Malate

9. Which of the following is master gland of our body?
 - a) Adrenal
 - b) Liver
 - c) Pituitary
 - d) Sex organs

10. In the ovary the progesterone and estrogen is secreted by –
 - a) Corpus albicans
 - b) Corpus callosum
 - c) Corpus luteum and Grafian follicles
 - d) Cells of Grafian follicles