



UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program :Seventh Semester – 2020

Paper: Bio Chemistry (Sp. Theory-I)

Course Code: CHEM-418

Part – I (Compulsory)

Time: 15Min. Marks: 10

Roll No. in Fig.

Roll No. in Words.

Attempt this Paper on this Question Sheet only.

Division of marks is given in front of each question.

This Paper will be collected back after expiry of time limit mentioned above.

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Signature of Supdt.:

Q.1. Encircle the right answer cutting and overwriting is not allowed. (10x1=10)

- I. Which of the followings is a saturated fatty acid?
a) Palmitic acid b) Palmitoleic c) Linoleic acid d) Oleic acid
- II. The polysaccharide found in the exoskeleton of invertebrates is
a) Pectin b) chitin c) cellulose d) Chondroitin sulphate
- III. Lipid stores are mainly present in
a) Liver b) Brain c) Muscles d) Adipose tissue
- IV. The energy expenditure for formation of glucose from pyruvate is.
a) 2 ATP b) 4 ATP c) 6 ATP d) 12 ATP
- V. Secretion of Androgen are Stimulated by.
a) CRF b) FSH c) LH d) ACTH
- VI. The number of isomers of glucose are
a) 16 b) 8 c) 4 d) 2
- VII. The metal present in the composition of insulin
a) Na b) Ni c) Zn d) none
- VIII. During starvation, ketone bodies are used as a fuel by
a) Erythrocytes b) Brain c) Liver d) All of these
- IX. Somatostatin is produced by
a) Posterior pituitary b) Anterior pituitary c) Hypothalamus and pancreas
d) Hypothalamus and Adrenals
- X. The optimum PH of salivary α -amylase is...
a) 5.6 b) 6.7 c) 8.0 d) 9.6



ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Give short answers of the following: (10x2=20)

- I. What are ketone bodies?
- II. Write the functions of Insulin hormone?
- III. Write the Inhibitors of Electron transport Chain.
- IV. Briefly describe the lipid aggregate?
- V. What are enantiomers discuss with example?
- VI. Name the steps involve in biosynthesis of fatty acids.
- VII. Differentiate between oxidative and non-oxidative phosphorylation?
- VIII. Give any two important roles that prostaglandins play.
- IX. Name the syndrome associated with HMP shunt.
- X. Differentiate between hormones and pheromones.

Q.3. Answers the following questions.

- I. Describe briefly digestion and absorption of carbohydrates. (7)
- II. What kind of hormones are secreted by posterior lobe of Pituitary gland? (3)
- III. Elaborate the β -oxidation of fatty acid synthesis. (7)
- IV. Discuss the Lipolysis in few lines? (3)
- V. Illustrate and explain the feedback mechanism of oxytocin hormone. (6)
- VI. What kind of hormones are secreted by posterior lobe of Pituitary gland? Write the functions of antidiuretic hormones. (4)