UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program / Sixth Semester – Spring 2023

Paper: Bio Chemistry Course Code: CHEM-323

Roll No.
Time: 3 Hrs. Marks: 60

THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

Q.1. Ans	swer the following short questions.	(15x2=30)
II. Summ III. Why IV. How V. Why VI. Elabo VII. VIII. IX. Write	the acid number and how it determines the quality of an oil. Interior some important functions of cholesterol in the body. I	te proteins.
	uss the effect of pH change on enzyme activity. The the Michaelis-Menton constant (k_m) . Differentiate competitive and non-competitive inhibition in Justify that the respiratory quotient of carbohydrates is 1.	n enzymes.
XV.	Define fiber (in nutrition) and give its dietary sources. Briefly discuss RDA(recommended dietary allowance).	
Ans	swer the following questions.	
Q.2. (a) Give in detail the biological importance of lipids.(b) Discuss any five factors affecting BMR (basal metabolic rate).		(5) (5)
Q.3. (a) How amino acids are classified on the basis of their polarity?		(5)
(b) Discuss the α-helix structure of proteins in detail.		(5
Q.4. (a) G	ive a description of six major classes of enzymes in sequence.	(6
(b) E	xplain the salient features of an active site of enzymes.	(4