## Q.P. Code :02890

	[Time: Three Hours]	Marks:/0
	Please check whether you have got the right question paper.	
	N.B: 1. All questions are compulsory.	
Q.1	a) Draw the structure of D-xylose by Fischer projection Formula	01
	b) Draw structure of D-Glucose by Haworth projection formula	00001
	c) draw struture of lecithin	01
	d) Explain effect of P <sup>H</sup> on enzyme activity	01
	e) Give mechanism of HMG – CoA reductase	01
	f) Explain enzyme induction & repression	01
	g) Name active form of vit B <sub>1</sub>	02
	h) Give Names & Draw structure of sulfur containing amino acidss with three letter cod	e 02
	i) What is allosteric inhibitions?	
	j) Define vitamin and classify it	02
	k) Expplain metabolism with example	02
		02
Q.2	a) Write a note on secondary structure of protien	03
	b) Explain ATP as an energy carrier	03
	c) Discuss competitive enzyme inibition	03
	d) Discuss in detail about carboaydrate digestion	02
Q.3	a) Write a note on glycogen	03
	b) Write a note on vit-A or vit-k	03
	c) Write a note on folic acid	03
	d) Explain Free energy & transformed free energy	02
Q.4	a) Classify amino acids based on functional groups with example (no structure required	) 03
	b) Write a note on triglycerides.	
	c) Discuss biochemical role of Vit-B <sub>7</sub> or Vit-B <sub>5</sub>	03
	d) State laws of thermodynamics	02
	e) Give role of kindney in degertion & absorption of food.	02
		01
Q.5	a) Civa datail alamification of anthologication	0.2
	a) Give detail classification of carbohydrate	03
	b) Explain effect of substrate concentration on enzyme avtivity	03
	c) Explain multiple cascade system for enzyme regulation	02
	d) Dsicuss biochemical role of Ascorbic acid	02
	e) Draw structure of arachidonic acid.	01
Q.6	a) Write a note on Vit-B <sub>1</sub> or Vit-B <sub>2</sub>	03
	b) Write a note on post-translational modification	03
	c) Give two examples of drugs that inhibits following enzyms with their clinical significant (a) MAO	cance. 02
	2) Thymidylate synthetase	
	d) Give short note on double Helix structure of DNA	
	e) Differential between fat & oil.	
		02
	7.8.8.7.9.8.8.8.7.	