(A-31) Seat NO: -

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SARDAR PATEL UNIVERSITY

M.Sc. (Integrated) Biotechnology (IGMBT), Seventh Semester Examination
Tuesday, 18th October 2016
2:00 P.M to 5:00 P.M

PS07CIGMB1: Regulation of metabolic pathways

Note: (1) Figures to the right indicate marks. Total Marks: 70
((2) Draw a neat and labeled diagram, wherever necessary.
Q. 1	Choose the most appropriate answer from the four alternatives given:
(1)	Which of the following is true? Control of enzyme activity is done by (a) enzyme induction and end product repression (b) end product repression, enzyminduction and catabolite repression (c) Feedback inhibition, enzyme induction and end product repression (d) Non of the above
(2)	An allosteric protein is one which has: (a) Catalytic site (b) Effector site (c) Both of them (d) None of them
(3)	Nicotinic Acetylcholine receptor is an example of: (a) VGIC (b) LGIC (c)VVIC (d) none of the above
(4)	What happen when Insulin receptor binds insulin: (a) phosphorylates IRS-1 (b) autophosphorylation IRS-1 (c) autophosphorylation of Grb2 (d) autophosphorylation on its Tyr residues
(5)	In the conversion of triose phosphate, Fructose 2-6 Bisphosphate regulateand (a) PFK-2 and FBPase-2 (b) PP-FK1 and FBPase-2 (c) PP-PFK-1 and FBPase-1 (d) PFK-2 and FBPase-1
(6)	First reaction of B oxidation is catalysed by: (a) acetyl CoA dehydrogenase (b) Acyl CoA dehydrogenase (c)both of them (d) none of the above
(7)	Which of the following is non toxic form of ammonia: (a) glutamate (b) glutamine (c) glucosamine (d) none of the above
(8)	Which of the following amino acid plays a special role in transporting amino group to the liver in nontoxic form: (a) Aspartate (b) Alanine (c) Proline (d) Glutamate