SWAMI VIVEKANANDA YOGA ANUSANDHANA SAMSTHANA

(S-VYASA)

(Declared as Deemed-to-be University under Section 3 of the UGC Act, 1956)

BNYS 2nd SEMESTER FINAL EXAMINATION

BNYS T 203 Biochemistry-2

Date: June 15, 2012

Time: 3 Hrs **Total Marks: 80**

Long Questions (any two of the following) **10X2=20**

1. Give an account of cholesterol biosynthesis and add a note on the significance of plasma cholesterol estimation.
2. Citric acid cycle is the final common metabolic pathway for the oxidation of food stuffs-justify.
3. Describe the process of translation.

Short notes (any eight) **5X8=40**

4. Digestion of lipid
5. Degradation of heme
6. Oxidation of even chain fatty acid
7. Fatty liver
8. Renal mechanism for pH regulation
9. Glycogen synthesis
10. Urea cycle
11. Components of ETC
12. Degradation of purine nucleotide
13. Na^+ dependent intestinal transport of glucose and amino acid.

Answer the following questions briefly (any ten) **2X10=20**

14. Compare the DNA replication between Prokaryotes and Eukaryotes.
15. What is ketosis? Write the various conditions in which the ketone bodies are formed.
16. Write a note on Malate-Asparate shuttle.
17. What is the significance of gluconeogenesis?
18. Differentiate between acidosis and alkalosis.
19. Define BMR and name the factors regulating BMR.
20. What is PEM and give one example.
21. Write a note on Atherosclerosis.
22. What is lactose intolerance?
23. What is the fate of chylomicrons?
24. Name the enzymes involved in protein digestion.
25. Write a note on chloride shift.