

## SUPPLEMENTARY

SARASWATI-I: SEPTEMBER 2017  
SUBJECT: BIOCHEMISTRY PAPER-I

Day : Thursday  
Date : 14/09/2017

Time: 2.00 pm To 4.00 pm  
Max. Marks: 50.

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**N.B.:**

- 1) Attempt any **FIVE** questions.
  - 2) Figures to the **RIGHT** indicate full marks.
  - 3) Draw neat diagrams **WHEREVER** necessary.
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- Q.1** What is normal blood glucose level? Discuss the various mechanisms involved in its regulation. Highlight the importance of regulation of blood glucose level. (10)
- Q.2** Discuss the process of Ketogenesis, Ketolysis and Ketosis in detail. (10)
- Q.3** Discuss the diagnostic, therapeutic and analytical importance of enzymes. Add a note on isoenzymes. (10)
- Q.4** Describe the chemistry, sources, Recommended Daily Allowance (RDA), functions and deficiency manifestations of vitamin D. (10)
- Q.5** Write notes on (ANY TWO) (10)
- a) Vitamin C
  - b) Atherosclerosis
  - c) Amphibolic role of Tricarboxylic Acid (TCA) Cycle
- Q.6** Write notes on (ANY TWO) (10)
- a) Inhibitors of Electron Transport Chain (ETC) and oxidative phosphorylation
  - b) Phase II reactions of detoxification
  - c) Carcinogens

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