

# BIOCHEMISTRY

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## Paper - 2

JUNE/JULY 2006

(2 ½ hours)

Total marks : 35

### SECTION – B

2. Write short answers. (any 5 of 6) :

(5x2=10)

- a) State any four factors affecting the calcium absorption.
- b) Diagram showing transport of Acetyl CoA from mitochondria to cytosol.
- c) State the principle of flamephotometry.
- d) Name any four chemical carcinogens.
- e) Give four examples of detoxication by oxidation.
- f) Explain the mechanism of ADH hormone action.

3. Solve ( any 2 of 3) :

(2x4=8)

- a) Amphibolic role of T.C.A. cycle.
- b) Liver function test based on excretion ability of liver.
- c) A 45 year old obese man complained of gastric pain and admitted In hospital due to heavy alcohol ingestion. Blood was taken for organ function test. Serum looked opalescent and analysed for lipids. Serum cholesterol was 310 mg% and serum triglyceride was 690 mg%.

- a) What is probable diagnosis? **02**
- b) Which additional test you will perform. **02**

### SECTION – C

4. Describe the metabolism of glycogen and its hormonal regulation. (1x9=9)

OR

Describe the lipid metabolism in adipose tissue with its hormonal regulation.

5. Answer (any 2 of 3) :

(2x4=8)

- a) Describe Urea clearance test.

- b) Cori cycle and its importance.
- c) Catabolism of cholesterol & its functions.

