



RE-3193
B. Sc. (Sem. V) Examination
March / April - 2017
503 : Metabolism

Time : Hours]

[Total Marks : 50

Instructions :

(1)

<p>नीचे दृशावेव निशानीवाणी विगतो उत्तरवही पर अवश्य लिखवी. Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination : B. Sc. (SEM. 5)</p> <p>Name of the Subject : 503 : METABOLISM</p> <p>Subject Code No. : 3 1 9 3 Section No. (1, 2,.....): NIL</p>	<p>Seat No. : [][][][][][][]</p> <p>Student's Signature</p>
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- (2) Draw neat and labelled diagrams wherever necessary.
(3) Figures to the right indicate full marks of the question.

1 Answer as directed : 12

- (1) Explain : Transamination.
- (2) Describe in brief mitochondrial shuttle.
- (3) Enlist the various metabolic pathways.
- (4) What is substrate level phosphorylation ?
- (5) Give any two examples of glycogen storage diseases.
- (6) Define :
 - (a) Intermediate metabolites
 - (b) Hyperammonaemia.

2 Write an essay on Glyconeogenesis. 14

OR

2 Describe in detail how fatty acids are activated, transported 14
and oxidized in mitochondria.

- 3** Answer any two of the followings : **14**
- (1) Explain Deamination. Describe in detail oxidative deamination.
 - (2) Write a note on Lactose intolerance.
 - (3) Describe in brief bioenergetics of TCA cycle.
- 4** Write short notes on : (any two) **10**
- (1) Importance of pentose pathway
 - (2) Decarboxylation
 - (3) Glycogenolysis.
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