



**DG-3147**  
**B. Sc. (Sem. V) Examination**  
**March/April - 2016**  
**Bioscience - 503**  
**(Metabolism)**

Time : 2 Hours]

[Total Marks : 50

**Instructions :**

(1)

<p>नीचे दर्शावेक निशानीवाणी विगतो उत्तरवही पर अवश्य लपनी. Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination : B. Sc. (Sem. V)</p> <p>Name of the Subject : Bioscience - 503 (Metabolism)</p> <p>Subject Code No. : 3 1 4 7 Section No. (1, 2,...): Nil</p>	<p>Seat No. : □ □ □ □ □ □</p> <div style="border: 1px solid black; border-radius: 15px; padding: 10px; text-align: center; width: 100%;">Student's Signature</div>
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- (2) Draw neat and labelled diagram wherever necessary.  
(3) Figures to the right indicate full marks of the question.

**Q. 1** Answer as directed.

**12**

1. Enlist the name of enzymes of glycolysis.
2. Define: Catabolism, Anabolism.
3. Give the difference between EMP & HMP.
4. What is decarboxylation?
5. Explain: Intermediate metabolites
6. Why TCA cycle is called amphibolic in nature?

**Q. 2** Write an essay on  $\beta$ - oxidation.

**14**

**OR**

**Q. 2** Write an essay on Citric acid cycle

**14**

**Q. 3** Answer **any two** of the followings. **14**

1. Write a note on transamination.
2. Describe : Urea cycle.
3. Describe in detail stage-II glycolysis.

**Q. 4** Write short notes: (**any two**) **10**

1. Importance of HMP Shunt.
  2. Oxidative deamination
  3. Transport of Ammonia.
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