



AB-3147
Third Year B. Sc. (Sem. V) Examination
March/April – 2015
Bioscience : Paper - III
(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 :</p> <p>Third Year B. Sc. (Sem. 5)</p> <p>Name of the Subject :</p> <p>Bioscience : Paper - 3</p> <p>Subject Code No. : 3 1 4 7 Section No. (1, 2,...): Nil</p>	<p>Seat No. :</p> <table border="1" style="width: 100%; height: 20px;"><tr><td style="width: 15%;"></td><td style="width: 15%;"></td><td style="width: 15%;"></td><td style="width: 15%;"></td><td style="width: 15%;"></td><td style="width: 15%;"></td></tr></table> <div style="border: 1px solid black; border-radius: 15px; height: 60px; margin-top: 10px; display: flex; align-items: center; justify-content: center; padding: 10px;">Student's Signature</div>						

- (2) Draw neat and labelled diagram wherever **necessary**.
- (3) Figures to the **right** indicate full marks of the question.

- 1 Define / Explain in brief : (2-3 lines only) 12
- (1) Explain : Von-Gierke's disease.
- (2) Describe in brief fructose intolerance.
- (3) Give any two examples of transaminase enzyme.
- (4) List the various substrate of Gluconeogenesis.
- (5) What is fermentation ?
- (6) Which enzyme deficiency causes PKU ?
- 2 Answer any **two** of the following : 14
- (1) Describe in detail significance of Pentose cycle.
- (2) Write a note on glycogenolysis.
- (3) Describe in brief component of ETC.
- 3 Describe in detail urea cycle and its significance. 14

OR

- 3** Describe : **14**
- (1) Bio-energetics of β -oxidation
 - (2) Biogenic amines and its production.
- 4** Write short notes on : (any **two**) **10**
- (1) Preparatory stage of glycolysis
 - (2) Galactosaemia
 - (3) Disaccharides.
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