AB-3147
Third Year B. Sc. (Sem. V) Examination
March/April – 2015
Bioscience : Paper - III
(Metabolism)

Time : 2 Hours] [Total Marks : 50

Instructions :

(1) Fill up strictly the details of \( \text{ } \) signs on your answer book.
   Seat No.:

   Name of the Examination :
   Third Year B. Sc. (Sem. 5)

   Name of the Subject :
   Bioscience : Paper - 3

   Subject Code No. : 3 1 4 7 \( \text{ Section No. (1, 2,.....). Nil} \)

   Student's Signature

(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

   AB-3147] 1 [Contd...
3 Describe:

(1) Bio-energetics of β-oxidation
(2) Biogenic amines and its production.

4 Write short notes on: (any two)

(1) Preparatory stage of glycolysis
(2) Galactosaemia
(3) Disaccharides.