DPP-1373
M. Sc. (Biosciences) (Sem. II) Examination
April/May - 2016
202 - BIOS - Biochemistry

Time : 3 Hours] [Total Marks : 70

Instructions :

(1) Fillup strictly the details of sign on your answer book.
Name of the Examination :
M. Sc. (BIOSCIENCES) (SEM. 2)
Name of the Subject :
202 - BIOS - BIOCHEMISTRY
Subject Code No. :
Section No. (1, 2,...) : Nil
Student's Signature

(2) All the questions are compulsory.
(3) Digits to right side are indicating marks of the question.
(4) Draw labelled diagrams if necessary.

1 Answer any two of the following : 18
   (a) Give an account of titration curves and add a note on what is their significance in preparing the buffers.
   (b) Describe acid base concepts in detail.
   (c) Define Buffer solutions. Write their importance in biochemistry field by suitable examples.

2 Attempt any two of the following : 18
   (a) Glyoxylate cycle.
   (b) Types of lipids and P oxidation of fatty acids.
   (c) Geometrical and optical isomerism.

3 Give a detailed account on entry of monosaccharide other than glucose in glycolytic pathway.

OR

3 Describe the biosynthetic pathway of fatty acid in animals. 18
Write note on any two of the following:

(a) Ornithine cycle.
(b) Pyruvate dehydrogenase complex.
(c) Galactosemia and lactose intolerance
(d) Electron transport chain.