



MAR IVANIOS COLLEGE (AUTONOMOUS)
THIRUVANANTHAPURAM

Reg. No. :.....

Name :.....

First Semester Career Related B.Sc. Degree Examination, November 2016

First Degree Programme under CBCSS

Complementary Course: Biochemistry – I (for Botany and Biotechnology)

AUBB131: Introduction to Biochemistry

(Common for *Regular* – 2016 Admn. and *Improvement* – 2015 Admn.)

Time: 3 Hours

Max. Marks: 80

SECTION – A

Answer ALL questions in one or two sentences.

1. State the Bronsted theory of acids and bases.
2. Define normality.
3. Define isotonic and hypertonic solutions.
4. What are emulsions ? Give examples of emulsifying agents.
5. Define entropy and enthalpy.
6. State Beer – Lambert's law.
7. Write the principle of centrifugation technique.
8. Define partition coefficient.
9. How is 7% NaOH prepared ?
10. What is mean by a glycosidic bond ?

(10 × 1 = 10 Marks)

SECTION – B

Answer any EIGHT questions, not exceeding a paragraph.

11. Calculate the pH of a 0.001M solution of HCl.
12. Distinguish between molality and molarity.
13. What is diffusion and write its biological significance.
14. State Vant Hoff's law of osmotic pressure.

P.T.O.

