

**AH-1129 CV-19 S**  
**B.Sc. (Part-I)**  
Term End Examination, 2019-20  
**BIOCHEMISTRY**  
Paper-II

**Time: - Three Hours]**

**[Maximum Marks: 50**

**Note: Answer all questions. All question carry equal marks.**

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**Unit-I**

- (1). Describe the concept of free energy.

OR

Write short notes on followings:

- (a) The enzymatic pathways of phosphate transfer.
- (b) Redox potential.

**Unit-II**

- (2). Describe the basic principles of sedimentation.

OR

Write short notes on followings:

- (a) Analytical ultracentrifugation.
- (b) Types of electrodes.

**Unit-III**

- (3). What are the radioisotopes? Describe the various types of radioisotopes used in biochemistry.

OR

Write short notes on followings:

- (a) Autoradiography
- (b) Isotopic labelling methods

**Unit-IV**

- (4). Give a detailed account on principal, process and applications of Electrophoresis.

OR

Write short notes on the followings:

- (a) HPLC
- (b) Paper chromatography

**Unit-V**

- (5). Give an account on process and application of Nuclear magnetic resonance (NMR) spectroscopy.

OR

Write short notes on the followings:

- (a) Fluorescent spectroscopy
- (b) Immuno electrophoresis