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Total Number of Pages : 02

B.Pharm  
15PH503

5<sup>th</sup> Semester Regular/Back Examination 2018-19

PHARM. ANALYSIS-II

BRANCH : B.Pharma

Time : 3 Hours

Max Marks : 100

Q.CODE : E281

Answer Question No.1 which is compulsory and any FIVE from the rest.

The figures in the right hand margin indicate marks.

**Part- I**

**Q1 Short Answer Type Questions (Answer All-10) (2 x 10)**

- Name two reagents used for washing the precipitate in Gravimetric analysis.
- Define digestion of precipitate and surface adsorption.
- Which reference electrode is used in Amperometric titrations?
- Mention the factors that affect the Diazotization end point.
- Explain the concept of molar conductivity.
- Mention the applications of radio-immunoassay.
- What are the advantages and disadvantages of RIA?
- Define specific conductance and equivalent conductance.
- What are charging current and migration current?
- Write about the electrodes used in potentiometry.

**Part- II**

**Q2 Focused-Short Answer Type Questions- (Answer Any EIGHT out of TWELVE) (6 x 8)**

- Write a short note on Radio-immuno Assay.
- Explain the principles involved in electrophoresis.
- What is the principle involved in the conductometry? Explain molar conductivity.
- What is the main difference in working principle of nephelometry and turbidimetry? Mention their applications.
- How would you explain the presence of water in an 'analyte' usually reacts with Karl-Fischer reagent in a two step process?
- Give the chemical reactions involved in the Karl-Fischer titration.
- What is the diazotization reaction? How does it help in the assay of drugs? Explain.
- What are the advantages of diazotization titrimetry? Mention the factors that affect diazotization titrimetry.
- Explain the theory involved in potentiometry.
- What are the different types of instruments used in potentiometry? Mention the applications of potentiometry.
- Write short notes on Biamperometry and Rotating microelectrode.
- State the principle of Gravimetric analysis based on law of mass action. Define relative super saturation. Mention the mathematical expression.

**Part-III**

**Long Answer Type Questions (Answer Any TWO out of FOUR)**

- Q3** Explain the principles and procedure involved in Kjeldahl method of protein analysis. **(16)**
- Q4** What are the advantages of the DME? Compare the usefulness of the DME as a cathode and as an anode. What are the principle underlying Amperometric titrations? How are Amperometric titrations carried out? **(16)**
- Q5** Describe the steps involved in Gravimetric analysis. Write the advantages of this analytical procedure over Thermo-gravimetric analysis. **(12+4)**
- Q6** Define co-precipitation. What are the optimum conditions for precipitation? Enlist the various impurities obtained from co-precipitation. How can these be minimized? What are industrial applications of Gravimetric analysis? **(2+3+3+3+5)**