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FACULTY OF SCIENCE

B.Sc. V-Semester (CBCS) Examination, November / December 2019

Subject: Chemistry (Instrumental Methods of Analysis)

Time: 3 Hours

Paper - VI (A) (DSE E-1)

Max. Marks: 60

PART - A (5 x 3 = 15 Marks) (Short Answer Type)

Note: Answer any five of the following questions.

1 What is continuous extraction? Give one example.

What is R<sub>f</sub> value? What are the factors influencing R<sub>f</sub> value?

List any five cation anion resins.

4 What is the basic difference between paper and column chromatography?

5 Define transmittance and absorbance.

What is difference between colorimetry and spectrophotometry.

What is the principle involved in potentiometry?

8 What is over potential?

PART - B (45 Marks) (Essay Answer Type)

Note: Answer ALL from the questions.

(a) What is the principle involved in solvent extraction? Explain counter current (11)extraction method.

- (b) How do you prepare ascending and descending chromatogram in paper chromatography?
- 10 (a) Explain the packing techniques in column chromatography (wet packing and (11)dry packing) ?

- (b) Write Beer Lambert's law and write its limitations
- 11 (2) Draw the Block diagram of FT-IR spectrophotometer.

(b) How do you estimate iron in water sample by thio cyanate method?

(12)

(11)

12 (a) Write short note on :

- (i) Normal Hydrogen Electrode
- (ii) Quin hydrone Electrode.

OR

(b) Write brief note on :

- (i) Micro electrodes
- (ii) Polarization

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