

Hemchandracharya North Gujarat University, Patan
Bachelor of Vocation
Pharmaceutical Chemistry Semester - III
End Term Examination, December, 2018
(PC 312) (Advanced Analytical Chemistry-I)

Time: 2 hrs

Date:

Maximum marks: 50

Q.1 Answer any 9 questions. Each question carries 1 mark.

(9*1=9Marks)

1. Define: Chromatography.
2. Which of the following will be used for nitrogen detection?
(a) Kohlrausch law (b) Kjeldahl's method
(c) Karl Fischer Titration (d) All
3. Which of the following electrode is used in pH meter titration:
(a) Calomel (b) Glass Electrode (c) SHE (d) None
4. Which metal is used in TLC?
(a) Fe (b) Zn (c) Al (d) Na
5. Define: Specific Conductance.
6. Soxhlet apparatus is used to measure pH. (True/False)
7. Give the full form of HPLC _____
8. State the Kohlrausch law.
9. Define: Molar conductivity.
10. What is extraction process?

Q. 2 Answer any 5 questions. Each question carries 4 marks.

(5*4=20Marks)

1. Short note on Paper Chromatography.
2. Explain the conductance and the factor affecting conductance.
3. Explain Kjeldahl's method.
4. Explain Galvanic cell.
5. Short note on Solid phase extraction.
6. Explain Effect of pH on extractability of drugs.

Q.3 Answer any 3 question. Each question carries 7 marks.

(3*7=21Marks)

1. Explain Short note TLC.
2. Short note on column chromatography.
3. Explain the Soxhlet extraction.
4. Give definition: (i) Cell Constant (ii) Conductance (iii) Resistance (iv) Molar Conductance (v) Equivalent Conductance (vi) Standard Reduction potential (vii) Electrolytic Cell