

Seat
No.

T.Y. B.Sc. (Semester – IV) Examination, 2012
CHEMISTRY (Paper – IV)
CH – 344 : Analytical Chemistry
(New) (2008 Pattern)

Time : 2 Hours

Max. Marks : 40

- N.B. :** 1) **All questions are compulsory.**
2) **Figures to the right indicate full marks.**
3) **Use of log tables and calculators is allowed.**
4) **Neat diagrams must be drawn wherever necessary.**

1. Answer the following :

10

- 1) What is decomposition potential in polarography ?
- 2) Give Ilkovi equation.
- 3) What is alkaline error in pH metry ?
- 4) Give the principle of electrophoresis.
- 5) What is difference between GLC and GSC ?
- 6) What is stationary and mobile phase in thin layer chromatography ?
- 7) How the resolving power of HPLC is increased ?
- 8) What do you understand by HPLC ?
- 9) Give significance of parent peak obtained in mass spectroscopy.
- 10) Define the term molecular ion in mass spectrometry.

2. A) Answer **any two** of the following :

6

- 1) Write a note on moving boundary electrophoresis.
- 2) Discuss flame ionisation detectors in gas chromatography.
- 3) Describe construction and working of calomel electrode.

P.T.O.

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