

Seat No.:-----

Enrolment No.:-----

UKA TARSADIA UNIVERSITY

Maliba Pharmacy College

B. Pharm 6th Semester Internal Examination April 2014 (*Mid-Sem-1*)

030020603- Pharmaceutical Analysis-II

Time: 10:30 a.m. To 12:30 p.m.

Max. Marks: **40**

Date: 09/04/2014

Instructions:

- Attempt any **FIVE** questions.
- Each question carries **08** marks.
- Make suitable assumption whenever necessary.
- Figures to the right indicate full marks.

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| Q.1 | A) | Define: Selectivity factor, Column Resolution, Capacity factor, Retention time | 04 |
| | B) | Describe the kinetic variable affecting zone broadening. | 04 |
| Q.2 | A) | How can the selectivity factor be manipulated in liquid chromatography? | 04 |
| | B) | Explain the principle of Size exclusion chromatography & write its applications. | 04 |
| Q.3 | A) | Discuss the factors affecting separation of two or more analytes by extraction. | 05 |
| | B) | A 25.0 mL aliquot of a 0.4 % w/v aqueous solution of acetanilide was extracted with three 10.0 mL portions of ether. The combined ether extracts were evaporated to dryness and the residue was weighed. The ether/water partition coefficient for acetanilide is 3.0. What was the weight of the residue? | 03 |
| Q.4 | A) | Explain the principle of separation by thin layer chromatography and paper chromatography. | 04 |
| | B) | Discuss various stationary phases used in thin layer chromatography. | 04 |
| Q.5 | A) | Classify analytical methods. | 04 |
| | B) | Write short note on signal to noise ratio. | 04 |
| Q.6 | A) | Write applications of potentiometry. | 04 |
| | B) | Write short note on reference laboratory electrode. | 04 |
| Q.7 | A) | Write short note on D.M.E. | 04 |
| | B) | Write applications of conductometry. | 04 |
