

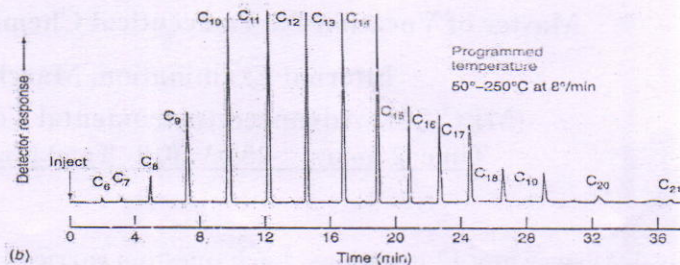
Pramukh Swami Science & H.D. Patel Arts College, Kadi
Master of Vocation Pharmaceutical Chemistry Semester-II

Internal Examination, March-2019,
(MPC-201) Advanced Instrumental Techniques
Time: 2 hours 25/03/2019 Total Marks: 60

Que-1. Answer any 12 questions. Each question carries 1 mark[12]

1. What is chromatography?
2. Which type of column is mostly used in HPLC?
(a) Cyanide (b) C-13
(c) TDS (d) C-18
3. What is pressure in UPLC?
4. Which is not a packing of column-
(a) WCOT (b) SLOT
(c) SCOT (d) PLOT
5. What is TLC?
6. Which is the universal detector in GC.
7. Which type of column are used in column chromatography.
8. What is gradient HPLC system?
9. Chemical separation and identification of non-volatile compound can be done by GC. (True/False)
10. What is the pressure in HPLC?
11. Particle size in UPLC is
(a) 1.7 μm (b) up-to 2.5 μm
(c) 3.5 μm (d) 4 μm

12. The following graph is of



(a) NMR

(b) GC

(c) HPTLC

(d) Mass Spectroscopy

Que.2. Answer any five questions. Each question carries 4 marks

[20]

1. Explain the Injection type in GC.
2. Explain the principle of Column chromatography.
3. Explain the difference between HPLC and UPLC.
4. Explain the Application of HPLC.
5. What is Column packing? Explain various type of column packing GC.
6. Explain the principle of HPLC.
7. Write a note on detector in HPLC.

Que.3. Answer any four questions. Each question carries 7 marks [28]

1. Explain the Instrumentation of UPLC.
2. Explain the Instrumentation of GC.
3. Write a note on application of Column chromatography.
4. Explain Injection in HPLC.
5. Explain application of chromatography.
6. Write a note on application of GC.