

BACHELOR OF PHARMACY EXAMINATION, 2017
(B. Pharm 3rd Year, 1st Semester SUPPLE)

Pharm. Chemistry – VIII

Time: Three Hours.
Full Marks: 100

Answer any **five** questions taking at least two from each group.

GROUP - A

1. a) Classify different chromatographic techniques; Explain the principle behind Chromatographic separation .
c) Differentiate between reverse phase and normal phase chromatography
b) Describe different methods of sample application and detection in HPTLC.
 $8+5+7 = 20$
2. a) State briefly different types of detectors used in HPLC and their importance for analysis of drugs
b) Explain ion exchange chromatography with its importance in analysis of drugs and pharmaceuticals.
 $10+10 = 20$
3. Explain the importance of the following while analyzing a drug: $7+7+6= 20$
 - (a) Detection techniques used in TLC
 - (b) Development of plate in TLC
 - (c) Centrifugal Partition chromatography
4. Write short notes on the following:
 - a) Size exclusion chromatography
 - b) Isocratic and Gradient elution
 - c) Benefits of UPLC
 - d) Vacuum liquid chromatography $5+5+5+5 = 20$

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Group 'B'

5. a) Define (i) GMP and (ii) quality control
b) What are objectives of a (i) quality assurance and (ii) GMP
c) What is validation? Classify validation. $(2 + 4) + (5 + 2) + (2 + 5) = 20$
6. a) Discuss ten commandments of GMP.
b) How (i) location and (ii) building and facilities affect GMP? $13 + (1 + 6) = 20$