BACHELOR OF PHARMACY EXAMINATION, 2019 B. Pharmacy - Third Year - First Semester Pharmaceutical Chemistry – VIII

Time: Three hours.

Full Marks: 100

Answer any five questions taking at least two from each group

GROUP - A

 a) Explain different feat 	tures of HPLC for sample application	ո, development and
detection in analys	is of drugs and pharmaceuticals wit	n examples.

- b) Describe the therapeutic uses, analytical methods, detectors used for the analysis of the following, as mentioned in IP:

 10+10 = 20
 - i) Paracetamol

ii) Atenolol

iii) Levo-cetrizin

- iv) Metformin
- v) Aceclofenac
- 2. a) Explain different adsorbents used in TLC with the merits and demerits. What is a mobile phase? Explain their characteristics and how they are chosen for TLC of a drug sample.
- b) Why silica gel is used mostly in TLC? Explain its characteristic features, different grades, uses in different chromatographic methods.

 10+10 = 20
- 3. a) Differentiate between the following with their applications and methodology in analysis of drugs and pharmaceuticals:
 - i) TLC and HPTLC
- ii) CC and VLC
- iii) HPLC and GC
- b) Explain the analysis of the following drugs through HPTLC as mentioned in IP
 - i) Cocaine

ii) Griseofulvin

iii) Ergotamine

iv) Digoxin

10+10=20

4. Describe the working principle, characteristic features and uses of the following in Drug analysis:

4×5=20

i) LC-MS analysis

ii) Ion exchange chromatography

iii) Fraction collectors

iv) IR Spectroscopy

v) Rheometer

Ex/PHARM/T/312/2019

B. Pharm. 3rd Year 1st Semester Examination 2019

Pharmaceutical Chemistry VIII

Time: 3 Hr

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Group 'B'

Answer at least two questions

5 Discuss raw material quality assurance monograph with an example.

10 + 10 = 20

6. What are the ten commandments of GMP? Write notes on validation and stability studies.

10 + 6 + 4 = 20

7. What are '5M of total quality management'? Discuss question inventories of '5M of total quality management' 5 + 15 = 20