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M.D (ILMUL ADVIA) IYEAR ANNUAL EXAMINATION, 2016

Paper-MDI-104

Tibbi Kimya wa Mearbandi

(Medicinal Chemistry & Standardization of Unani Drugs)

Time: Three Hours

Maximum Marks: 75

*(Write Roll No at the top immediately on receipt of this question paper)
Attempt all questions. All parts of question must be attempted in continuation*

Section – A (2 x 10 = 20 Marks)

Answer in brief (up to 20 words);

- (a) What does the quantity of ash in a drug indicates ?
- (b) Define chromatography and Rf value.
- (c) What is viscosity ? How does it vary with temperature ?
- (d) What is specific gravity ?
- (e) What do you mean by HPTLC ?
- (f) Name various methods by which essential oil can be extracted from herbal Unani drugs.
- (g) What is the difference between nanosaccharide and disaccharide ? Give example also.
- (h) Give the general properties of alkaloids.
- (i) What are the commonly used carrier gases in gas chromatography ?
- (j) What do you mean by drug adulteration ?

Section -- B (5 x 5 = 25 Marks)

Attempt all questions.

Answer in upto 100 words;

- (a) What are the advantages of Thin Layer Chromatography.
- (b) Write down the significance of pH as parameter of standardization of Unani drugs.
- (c) Explain the soxhlet method of extraction.
- (d) Write brief short notes among two of the following:
 - (i) Alkaloids
 - (ii) Organic acids
 - (iii) Cardioactive glycosides
- (e) Discuss an Azeotropic method for moisture content determination of Unani drugs.

Section – C (3 x 10 = 30 Marks)

Attempt all questions.

Answer in upto 300 words;

- (a) Draw schematic diagram of HPLC and discuss its operation in brief.
- (b) Give a detail account of aflatoxins.
- (c) Discuss the factors affecting the quality of Unani drugs.
