

**Syllabus for entrance test for admission to Ph.D programme in Moalajat and Ilmul Adviya
at the Centre for AYUSH Science, IUST.**

Time Duration – 70 Minutes

Maximum Marks: 70

Part-I — 35 Multiple Choice Questions 35x1=35

Part-II —35 Multiple Choice Questions 35x1=35

PART I

A) Basic Principles of Unani Medicine (Kuliyat Ammor e Tabbiya)

- Basic principles.
- Arkan
- Akhlat
- Mizaj
- Aza
- Arwah
- Afaal
- Quwwa

B) Pharmacology (Ilmul Adviya)

- Adviya Mufradah
- Adviyah Murraqabah

C) Medicine (Moalijat)

- Diseases of the Nervous System
- Diseases of the Respiratory System
- Diseases of Blood Vessels and Cardiovascular System
- Diseases of the Gastrointestinal and Hepato Biliary System
- Diseases of Urinary System
- Diseases of Skin, Hair and Nails
- Diseases of Locomotary System
- Hummiyat (Fevers), Nabz, Boul wa Baraz

D) Regimenal Therapies (Ilaj bil Tadbeer) and Basic Principles of Unani Treatment (Asool e ilaj)

PART II

A) Types of research (a) Literary research (b) Clinical research (c) Experimental research (d) Observation and field studies.

B) Research problems (a) Definition (b) Selection and sources of research problems

C) Hypothesis (a) Types: Null and alternate hypothesis

D) Research designs (a) Types of Research designs

E) Controls in research designs (a) Selection criteria (b) Placebo and plain control (c) Randomization (d) Balancing and matching

- F) Tools and techniques in research (a) Interview, questionnaire, inventories, scales (b) Rating scales
- G) Computer programmes used in research (a) Minitab (b) SPSS
- H) Protocols for research and report writing (a) Protocols for experimental, clinical and community based research. (b) Writing research report. (c) References in research report. (i) Books (ii) Journals (iii) Compendia (iv) Bulletins (v) WHO Reports (vi) Internet Sites
- I) Guidelines for Research (a) WHO (b) ICMR (c) CPCSEA
- J) **Descriptive Statistics** (a) Analysis of Data (i) Data collection, tabulation and presentation of data. (ii) Measure of central tendency – Mean, Median and Mode. (iii) Measures of dispersion: Range, quartile deviation, standard deviation. (b) Probability (i) Definition and laws of probability (ii) Types of probability distribution (iii) NPC and its application size (iv) Randomized samples (c) Sampling (i) Types and sample size (ii) Randomized sampling. **Inferential Statistics** (a) Correlation and linear regression (i) Karl Pearson correlation coefficient (ii) Linear regression equations. (b) Test of significance (i) 't' test (ii) 'z' test. (c) Test of variance (i) ANOVA one way (ii) ANOVA two way (iii) X² (d) Non-parametric tests (i) Median test, Mann Whitney U test. (ii) Kruskal Wallis test, Fried test **Vital Statistics** (a) Rate and Ratios (b) Standardization of population Risk factors