

SYLLABUS FOR ENTRANCE EXAMINATION OF PhD (MOALAJAT)

2016-17

Research Methodology and Biostatistics

Research Methodology

Types of research

- (a) Literary research
- (b) Clinical research
- (c) Experimental research
- (d) Observation and field studies

Trends and possibilities of R&D of Unani Drugs

Research problems

- (a) Definition
- (b) Selection and sources of research problems

Hypothesis

- (a) Types: Null and alternate hypothesis

Research designs

- (a) Types of Research designs

Controls in research designs

- (a) Selection criteria
- (b) Placebo and plain control
- (c) Randomization
- (d) Balancing and matching

Factors effecting research results.

Tools and techniques in research

- (a) Interview, questionnaire, inventories, scales
- (b) Rating scales

Computer programmes used in research

- (a) Minitab
- (b) SPSS

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

Guidelines for Research

- (a) WHO
- (b) ICMR
- (c) CPCSEA

Bio-Statistics

Scope and utility of Biostatistics 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) X^2
- (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

Clinical Biochemistry and Genetics

Part – A

Clinical Biochemistry

Basic chemistry of carbohydrates, lipids, amino acids and proteins.

Enzymes: General characteristics of enzymes & assay methods kinetics assay of some clinically important enzymes.

Vitamins and minerals.

Metabolism of carbohydrate lipids and amino acids

Classification of body fluids and their biochemical co-relation
(General considerations)

Practical (Lab Course)

LFT, KFT, Sugar profile, Lipid profile.

Enzyme assays

Part – B

Genetics

DNA as Genetic Material: Structure of DNA, Structure of RNA

DNA Replication, Transcription, Translation

Mutations : (Basic)

Chromosomal Abrasions

Genetic disorders

Autosomal and sex chromosomal abnormalities

In-born errors of Carbohydrate, protein and lipid Metabolism (General considerations)

DNA based diagnosis

DNA based diagnostic probes

Population based DNA testing

Mutation detection

Gene therapy

UsooleTashkheeswaTajveez

(Principles of Diagnosis and Treatment)

Tashkheeskigharz-o-ghaiyat

AamIstefsaraat

RudadeMareez (The History Taking)

- (a) Student's Approach to the Patient
- (b) History Taking
- (c) General Principles of Examination
- (c) The Case History Recording
- (d) Case Presentation
- (e) Interpretation of clinical Data

Umoomiimtehanemareez(General Examination of Patient)

- (a) General appearance
- (b) Mental and Emotional states
- (c) Physical Attitude, gait, physique
- (d) Face, eyes, neck, thyroid gland
- (e) lymphatic system
- (f) Pulse
- (g) Respiration
- (h) Temperature
- (i) Blood Pressure
- (j) Routine Examination
- (k) Assessment of functional Impairment

External Manifestations of Disease

- a) Inspection of Exterior of the body
- b) Abnormalities in Head and Neck
- c) Examination of Mouth, Eye and Ear
- d) Skin, nails and hair and Special Techniques of the examination
- e) Upper limb, lower limb
- f) Genitalia.

ImtehanNizameHazm(Examination of Digestive System)

- (a) Clinical Symptoms
- (b) Examination
- (c) Investigations
- (d) Recent diagnostic techniques
- (e) Usoolellaj

ImtehanNizameTanaffus(Examination of Respiratory System)

- (a) Clinical Symptoms
- (b) Examination
- (c) Investigations
- (d) Recent diagnostic techniques
- (e) Usoolellaj

ImtehannizameQalbwaDauraneKhoon(Examination of Cardiovascular system)

- (a) Clinical Symptoms
- (b) Examination
- (c) Investigations
- (d) Recent diagnostic techniques
- (e) Usoolellaj

ImtehannizameBaulwaTanasul(Examination of Urino-Genital system)

- (a) Clinical Symptoms
- (b) Examination
- (c) Investigations
- (d) Recent diagnostic techniques
- (e) Usoolellaj and related assessment scales

ImtehannizameAsaab(Examination of The Nervous System)

- (a) Clinical Symptoms
- (b) Examination

- (c) Investigations
- (d) Recent diagnostic techniques
- (e) Usoolellaj

ImtehanizameEzamwaMafasil(Examination of Skeletal System)

- (a) Clinical Symptoms
- (b) Examination
- (c) Investigations
- (d) Recent diagnostic techniques
- (e) Usoolellaj

ImtehaneNafsani(The Psychiatric Assessment)

- (a) Clinical Symptoms
- (b) Examination
- (c) Investigations
- (d) Recent diagnostic techniques
- (e) Usoolellaj

ImtehanGhudadelaqanati(Endocrine System)

- (a) Clinical Symptoms
- (b) Examination
- (c) Investigations
- (d) Recent diagnostic techniques
- (e) Usoolellaj

ImtehaneMashaikh(Geriatrics)

- (a) Clinical Symptoms
- (b) History Taking
- (c) Examination
- (d) Investigations
- (e) Recent diagnostic techniques
- (f) Usoolellaj

Examination of Haemopoietic system

Examination of children

Examination of unconscious patient

Ethical Issues in Medicine

Nabz

- (a) SharaiteNabz, TareeqaeImtehan
- (b) AjnaseNabz
- (c) NabzeMufrad, NabzeMurakkab
- (d) AsbaabeNabz
- (e) Nabzke Tabai Iktelafaat
- (f) NabzkeMarziIkhtelafaat

ImtihaniBaul - Nazri

ImtihaniBaraaz – Nazri

Usoolellaj

- (a) Ilajkekullitareeqe
- (b) Ilajbil'dawakeQavaneen.
- (c) Auramkausoollellaj

- (d) Tareeqaetaadilwatanqiyakhlat
- (e) QavaneenwazarayeIstefragh- Ishal, Qai, Idrar, Huqna, Tareeq, Tanfees, Hijamat, Taleeq, Fasd
- (f) Tashkheesna hone kesurat me ilaj

Nuskhanaveesi

IlajBilTadbeer (Regimenal Therapy)

Introduction, Principles and Scope

Concept, objectives and classification

Tadabeer related with Hawa and atmosphere

Tadabeer related with Diet (Ilajbil Giza)

Tadabeer related with IlajNafsani&Roohani

Geriatric care

Dal'k (Massage)

- (a) Definition, Principles, Objectives
- (b) Classification of Dal'k
- (c) Description of muscles related to Dal'k
- (d) Properties and action of oils used in Dal'k
- (e) Effects of adjuvant drugs in Dal'k
- (f) Indications and therapeutic uses
- (g) Adverse effects

Riyazat (Exercise)

- (a) Definition, Principles, Objectives
- (b) Classification of Riyazat
- (c) Scientific interpretation and effects of Riyazat in certain disease like Sports induced disease
- (d) Therapeutic importance and indications
- (e) Adverse effects

Hamмам (Bathing)

- (a) Definition, Principles, Objectives
- (b) Types of Hamмам
- (c) Kinds of Hamмам rooms and its importance
- (d) Therapeutic uses and indications
- (e) Adverse effects

Hajamat (Cupping)

- (a) Definition
- (b) Types
- (c) Sites and procedures of Hajamat
- (d) Indications and contraindications

Fasd (Venesection)

- (a) Definition
- (b) Sites of Venesection
- (c) Anatomy and Description of Vessels of Venesection
- (d) Instruments used in Venesection

- (e) Pre Venesection Procedure
- (f) Investigations like Hb%, Bleeding Time, Clotting Time, Prothrombin time, platelet count, blood sugar, Blood group with Rh typing
- (g) Procedure and precautions
- (h) Indications and Contraindications
- (i) Management of Post procedural problems.

IrsaleAlaq (Leeching)

- (a) Definition
- (b) Description of Leech and its various types
- (c) Leech collection, storage and preservation
- (d) Leeching procedure
- (e) Precautions
- (f) Indications and contraindications

Ishal (Purgation)

- (a) Definitions, Principles
- (b) Indications and contraindications
- (c) Drugs used for purgation

Qai (Emesis)

- (a) Definition, aims and objectives
- (b) Drugs used for Qai
- (c) Indications and contraindications

Idrar (Diuresis)

- (a) Definitions, aims and objectives
- (b) Indications and contraindications
- (c) Drugs used for Idrar

Amle Kai (Cauterisation)

- (a) Definition, Aims, Objectives
- (b) Procedure
- (c) Precautions
- (d) Indications and contraindications

Nutool (Douching / Irrigation)

- (a) Definition, aims and objectives
- (b) Indications and contraindications

Huqna (Enema)

- (a) Definition, principles, aims
- (b) Objectives
- (c) Procedure
- (d) Drugs used in huqna
- (e) Indications and contraindications

Tareeq (Diaphoresis)

- (a) Definition, aims and objectives
- (b) Methods and Procedures
- (c) Indications and contraindications

Inkebaab (Vaporisation)

- (a) Definition, aims and objectives
- (b) Methods and Procedures

(c) Indications and contra indications

Definitions aims, objectives, procedures indications and contraindications of the following regimens

- (a) Takmeed, Tikor, Pashoya,
- (b) Ialam,
- (c) Nushuq, Tadheen, Tazahha, Saoot
- (d) Lakhlakha, Tanfees, Sukoob
- (e) Imala

AmrazeNizameAasab, AmrazeNafsaniawaGhudadeLaqanati

(Diseases of Nervous System, Psychiatric diseases and Endocrine Systems)

AmrazeNizameAsbi

Sudawaaqsaam, Sarsamwaaqsaam, Warmedimaghinukhai, WarmeAghshiyaedimagh, Duar, Qoma, Sara, Tashannuj, Rashawaaqsaam (Daurraqsaur Parkinsonism), Sakta, KhurajeDimagh, Faliq, Laqwa, Istarkha, HuzaleZohri, WajaulAsab, DimaghiSudde, JiryaaneKhoonDimaghi, Alzheimer's disease

AmrazeNafsaniya

Sahar, Nisyaan, Malankholiya, Mania, Kaboos, IzterabeNafsani, Izmehlaal, Ikhtinaqurrahman, Psychosis, Neurosis, Ikhtilaj, Akhoni (Waham), ShahwateKalbia, JooulBaqar.

GhudadeLaqanati

Ghuddaelaqanatiaurunkii frazatkatasawwurattibbakinazarmein (umoomijayaeza)

GhuddaeNukhamiya

GhuddaeNukhamiakeifrazatkiqillatwaifrat se hone wale Amraz e.g., Kibrullzm, Qazamah (Dwarfism), Ziabetussada, Salatenukhamiya.

GhuddaeDarqiya

GhuddaeDarqiyaakeifrazatkiqillatwaifrat se hone wale Amraz e.g., FarteDarqiya (Hyperthyroidism), TasammumeDarqiya, QusoorDarqiyaq, Ghoter (Goiter) Cretinism, OzemaMashati, SalateDarqiya.

GhuddaeJanibudDaraiqa

GhuddaeJanibuddarqiyaakeifrazatkiqillatwaifrat se hone wale Amraz e.g., Farteduraiqiya (Hyper parathyroidism), QusoorDuraqiya (Hypo parathyroidism).

Banqaras

BanqaraskehissaeLaqanati keifrazatkiqillatwaifrat se hone wale Amraz e.g., ZiabetusSukkari (Diabetes mellitus), QillateSukkaridum (Hypoglycaemia), SalaeJazeerom (Insulinoma)

GhuddaeFauqulKulya

GhuddaeFauqulkulyaakeifrazatkiqillatwaifrat se hone wale Amraz e.g., MutalazemaKoshing, Aldosteroma, warmulqawatim (Pheochromocytoma), Addison's disease, Naqsealdosteromia (Hypo aldosteronism).

Metabolic Disorders

Diabetes mellitus, lipid metabolic disorders, osteoporosis

AmrazeTavarus

SibghiJasdiAmraz (Autosomal disorder), SinfivabastaAmraz (Sex linked diseases).

AmrazeKhusiya

Ifrazatkamukhtasarjayeza, Khusiyauramraze bah kabahmitaalluq, JinsiAmraz e.g., Jinsimubtasar (sexual paucity), Aajilbulooq (Delayed or Incomplete puberty), MutlazimaKlinefelter (Klinefelter syndrome), Acquired testicular defects, Infertility, SalateKhusiya, TasaddiurRajal (Gynaecomastia).

AmrazeKhusiyaturRaham

Balooghemubtasar (Isosexual precocious puberty), Turner syndrome, Uqr, SalateKhusiyaturrahama.

AmrazeNizameTanaffuswaDauraneKhoon, Tauleede Dam, GhudadeLymphaviah

(Diseases of Respiratory, Circulatory, Haemopoetic Systems, Lymph nodes and disease due to atmospheric pollution)

AmrazNizameTanaffus

Sual, WarmeHanjra, WarmeQasbaturRiya, WarmeShobaturRiya, SartaneShobaturRiya, IttisaeShob, Nafsuddam, BohtusSaut, ZeequnNafas, ZaatulRiya, ZaatulJanb, KhurajeRiya, NafkhatulRiya, Taqayyuhe Sadr, Istesqaus Sadr, SartaaneRiya, SuqooteRiya, SuddaeRiya, TadarruneRevi, IttesaeShobaturRiya, Fazakiaaludgi se mutaaliqAmrazeRiya.COPD, Tumours of bronchus and lungs, respiratory failure

AmrazeQalbwaDauraaneKhoon

Sue mizajeqalb, Zoafeqalb, Khafqaan, Warm Ghilaafeqalb, Warm Azlateqalb, Warm Batanaeqalb, Warm Batanaeqalbhudaari, zubbaisadria, Ghashi, Izamulqalb, Ilaasulqalb, Maitatulqalb, Suqooteqalbmintalai, Corpulmonale, Zaghtuddumqavi. SaqootDauraaneKhoonsatahi, Tasallubesharayeen, Anurisma, Manuatulqalb, Cardiac arrhythmia, Khilqiamrazeqalb, Butueqalb, Cardiac arrest, Cardiac failure, Sadma Heart block.pericardial diffusion

AmrazSamamateQalb

Tazaiuqurraseen (mitral stenosis), qusooruraseen (mitral incompetence), tazaiuqaurata (aortic stenosis), qusooreaurata (aortic incompetence).

AmrazeSharayeenwaaurida (Diseases of vessels)

Atherosclerosis, Aneurism, thrombophlebitis, Burger's disease, Raynaud's disease and other vascular diseases.

Taftishaat

AmrazeQalbwaDauraneKhoonkejaanchkemukhtalifqadeemwajadeedtareeqonke bare meinmalumat. (e.g. ECG, Echocardiography, Cardiac imaging, Catheterization etc.)

Amraze Dam

Faqrudam, Abyazuddam, Thalasaemia, FasadeKhoon, NazafuddamMizaji, AmrazeInjimaduddam.thrombocytopenia

Immunological Disorders

Haemopoitic system

Lymph nodes and disease due to atmospheric pollution

AmarazeNizameHazm, BaulwaTanasulwaIstahala

(Diseases of Digestive &Uro-genital systems and Metabolism)

Approach towards a patient with Gastrointestinal Disease

AmrazFam (Diseases of Mouth)

Amraz Mari (Diseases of Oesophagus)

AmrazMaedah (Diseases of Stomach):-

Zofemedah

Sue mizajemedah Warmemedah

Qarho-e-medah-o-asna-e-ashari (Peptic Ulcer Disease)

Kasrat-o-qillat-e-hamoozat-e-maedi

Sartaan-e-medah (Carcinoma of Stomach).

Tukhma

Sue-e-hazm

AmrazAmaa (Diseases of Intestines):-

Zarb-o-khilfa (Malabsorption Syndrome).

Disorders of Absorption

Ishaal (Diarrhoea).

Zalaqul-ama.

Qoolanj-e-ama (Intestinal colic).

Baraz-ud-dam (Melena).

Warm-e-qaulon (Inflammatory Bowel Disease).

Warm-e-qaulonqarhi.(Ulcerative colitis)

Diqq-e-ama (Intestinal Tuberculosis).

Iltehaab-e-miqad (Proctitis).

Acute Appendicitis and Peritonitis

Irritable Bowel Syndrome,

Intestinal Obstruction

Common Diseases of Colon and Anorectum

Diseases of Liver and Biliary Tract:-

Zofekabid.

Su-e-mizaj-e-kabid.

Warm-e-kabid (Hepatitis).

Dubelatulkabid (Liver abscess).

Yerqaan. (Hyperbilirubinemia)

Alcoholic liver Disease

Talaiuf-e-kabid (Cirrhosis of liver)

Hepatic Failure

Carcinoma of liver.

Istasqa (Ascitis).

Izmulkabid (Hepatomegaly).

Hisatulmirara (Cholyolithiasis)

Warm e mirara (Cholecystitis).

Other Biliary Diseases

AmrazTihal (Diseases of Pancreas):-

Warm-e-banqaraas (Pancreatitis).

All modern diagnostic procedures related to Digestive system.

Amraz-e-Nizam-e-Baule-o-TanassulwaIstahala(diseases of urinary and reproductive system and metabolism)

Diseases of Urinary System:

Diseases of Kidney:

Su-e-mizaj-e-kuliya.

Zofekuliya.

Warm-e-kuliya.(Glomerulonephritis)

MutafarriqueAmraz-e-kuliya.

Diqulkuliya. (Renal Tuberculosis)

Saqootulkuliya (Renal paranchymal Disease, Acute and Chronic Renal Failure).

NephroticSyndome

Warm-e-Hauzulkuliya (Pyelo-nephritis).

Hisatulkuliya (Renel calculi).

Hydronephrosis.

Incontinence of urine.

Baulud dam (Haematuria).

Renal lesions in diabetes.

Urinary Tract Diseases

All modern diagnostic procedures related to Uro-genital system

Diseases of Reproductive System:

Zofebaah.

Surrat-e-inzal.

Kasrat-e-Ehtalaam

Aurmutaliqueamraz.

Salpingitis

Oophoritis

Per vaginal Bleeding Disorders (Menorrhagia, Metrorrhagia etc.)

Proctitis

Sterility

Diseases of Metabolism:Common metabolic disorders and diseases\

AmrazeMutaddiyah, Hummiyat, JildwaMafasil

(Infectious diseases, Fevers and Diseases of Skin & Joints and Autoimmune disorders)

AmrazeMutaddiyah (Infectious diseases)

Mana'at and Tadiya

Importance of Mana'at in the treatment of infectious diseases

Classification of Infectious Diseases

Micro-organism and host interaction

Nosocomial Infections

Bacterial Diseases

Viral Diseases

Fungal Diseases
Protozoal Diseases
Helminthic Diseases
HIV and associated disorders

Hummiyat (Fevers)

Tareef-e-Humma
Ufoonat
AamUsoolellaj

Amraaze-Jild (Skin Diseases)

Applied anatomy of Skin
Functions and classification of skin
Examination of Skin and an approach to diagnosing skin diseases
Principles of therapy
Disorders of pigmentation
Disorders of nails
Diseases of Hair
Different Skin Diseases
Skin Infections and Infestations Skin in systemic diseases
Management of skin diseases cosmetology

Amraz-e-Mafasil (Rheumatology)

Clinical examination of musculoskeletal system
Applied anatomy, physiology and Investigations
Major manifestations of musculoskeletal diseases
Niqrīs (Gout)
WajaulMafasil (Arthralgia)
Warme-Mafasil (Arthritis)
TahajjurMufasil (Fixation of Joint)
Irqun-Nisa (Sciatica)
WajawulZahar (Backache)
WajawulKhasra (Low Backache)
WajawulQutn (Lumbago)
Osteoporosis
Ankylosingspondylosis

Principles of Management of musculoskeletal disorders