

## Syllabus for the Preliminary Test

જગ્યાનું નામ- નિયામકશ્રી, આયષુ (આયુર્વેદ, યોગા અને નેચરોથેરાપી, યુનાની, સિધ્ધા અને હોમીયોપેથી પધ્ધતિ)ની કચેરી હસ્તક હોમિયોપેથીકના ફાર્મસી વિષયના એસોસિયેટ પ્રોફેસર / રીડર, ગુજરાત રાજ્ય સેવા, વર્ગ-૧ (જાહેરાત ક્રમાંક-૫૭/૨૦૧૮-૧૯)

| કુલ પ્રશ્નો:૩૦૦ | પ્રાથમિક કસોટીનો અભ્યાસક્રમ   | કુલ ગુણ -૩૦૦ |
|-----------------|---|--------------|
| <b>Part-I</b>   |   |              |
| માધ્યમ: ગુજરાતી | સામાન્ય અભ્યાસ  | ગુણ -૧૦૦     |
| ૧               | ભારતની ભૂગોળ- ભૌગોલિક, આર્થિક, સામાજિક, કુદરતી સંસાધન અને વસ્તી અંગેની બાબતો- ગુજરાતના ખાસ સંદર્ભ સાથે  |              |
| ૨               | ભારતનો સાંસ્કૃતિક વારસો- સાહિત્ય, કલા, ધર્મ અને સ્થાપત્યો- ગુજરાતના ખાસ સંદર્ભ સાથે   |              |
| ૩               | ભારતનો ઇતિહાસ- ગુજરાતના ખાસ સંદર્ભ સાથે   |              |
| ૪               | ભારતની અર્થવ્યવસ્થા અને આયોજન   |              |
| ૫               | ભારતીય રાજનીતિ અને ભારતનું બંધારણ:<br>(૧) આમુખ<br>(૨) મૂળભૂત અધિકારો અને ફરજો<br>(૩) રાજ્યનીતિના માર્ગદર્શક સિદ્ધાંતો<br>(૪) સંસદની રચના<br>(૫) રાષ્ટ્રપતિની સત્તા<br>(૬) રાજ્યપાલની સત્તા<br>(૭) ન્યાયતંત્ર<br>(૮) અનુસૂચિત જાતિ, અનુસૂચિત જનજાતિ અને સમાજના પછાત વર્ગો માટેની જોગવાઈઓ<br>(૯) એટર્ની જનરલ<br>(૧૦) નીતિ આયોગ<br>(૧૧) પંચાયતી રાજ<br>(૧૨) નાણા પંચ<br>(૧૩) બંધારણીય તથા વૈધનિક સંસ્થાઓ- ભારતનું ચૂંટણી પંચ, સંઘ લોક સેવા આયોગ, રાજ્ય લોક સેવા આયોગ, કોમ્પ્યુટર એન્ડ ઓડિટર જનરલ; કેન્દ્રીય સતર્કતા આયોગ, લોકપાલ તથા લોકાયુક્ત અને કેન્દ્રીય માહિતી આયોગ |              |
| ૬               | સામાન્ય બૌદ્ધિક ક્ષમતા કસોટી  |              |
| ૭               | સામાન્ય વિજ્ઞાન, પર્યાવરણ અને ઈન્ફર્મેશન એન્ડ કોમ્યુનિકેશન ટેકનોલોજી  |              |
| ૮               | ખેલ જગત સહિત રોજબરોજના પ્રાદેશિક, રાષ્ટ્રીય અને આંતરરાષ્ટ્રીય મહત્વના બનાવો   |              |

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## Syllabus for the Preliminary Test

| <b><u>Post: Associate Professor / Reader (Pharmacy), Class-1 in Homoeopathy</u></b><br><b><u>College (Advt.No.57/2018-19)</u></b> |   |
|---|---|
| Total Questions: 300    Syllabus of Preliminary Test    Total Marks- 300  |   |
| <b>Part-I</b>   |   |
| Medium: Gujarati    General Study    Marks- 100   |   |
| 1   | Geography of India- Physical, Economic, Social, Natural Resources and population related topics- with special reference to Gujarat  |
| 2   | Cultural heritage of India-Literature, Art, Religion and Architecture- with special reference to Gujarat  |
| 3   | History of India with special reference to Gujarat  |
| 4   | Indian Economy and Planning   |
| 5   | <b><u>Indian Polity and the Constitution of India:</u></b><br>(1) Preamble<br>(2) Fundamental Rights and Fundamental Duties<br>(3) Directive Principles of State Policy<br>(4) Composition of Parliament<br>(5) Powers of the President of India<br>(6) Powers of Governor<br>(7) Judiciary<br>(8) Provisions for Scheduled Castes, Scheduled Tribes and backward classes of the society<br>(9) Attorney General<br>(10) NITI Aayog<br>(11) Panchayati Raj Institutions<br>(12) Finance Commission<br>(13) Constitutional and Statutory Bodies: Election Commission of India, Union Public Service Commission, State Public Service Commission, Comptroller and Auditor General; Central Vigilance Commission, Lokpal and Lokayukta, Central Information Commission |
| 6   | General Mental Ability  |
| 7   | General Science, Environment and Information & Communication Technology   |
| 8   | Daily events of Regional, National and International Importance including Sports  |

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## Syllabus for the Preliminary Test

Post: Associate Professor / Reader (Pharmacy), Class-1 in Homoeopathy  
College (Advt.No.57/2018-19)

### Part-II Syllabus Of Concerned Subject

### (Homeopathy) (Homeopathic Pharmacy)

Marks – 200

Questions-200

Medium: English

#### 1. **Homoeopathic Philosophy**

Concepts of principles and practice, Homoeopathic philosophy. Symptomatology. Causations. Case taking. Case processing.

#### 2. **Anatomy**

General Anatomy: Modern concepts of cell and its components, cell division, types with their significance, Tissues, Genetics. Development Anatomy. Regional anatomy.

#### 3. **Physiology**

General physiology: Introduction of cellular physiology, cell junction, transport through cell membrane and resting membrane potential, body fluids compartments, homeostatic. Body Fluids. Cardio-vascular system. Respiratory system and environmental physiology. Digestive system. Renal physiology and skin. Endocrinology. Reproductive system. Central nervous system. Special senses. Nerve muscle physiology.

**Bio-physical sciences:** Filtration, Ultra filtration, Osmosis, Diffusion, Adsorption, Hydrotropy, Colloid, Donnan Equilibrium, Tracer elements, Dialysis, Absorption, Assimilation, Surface tension.

#### 4. **Biochemistry**

Carbohydrates: (Chemistry, Metabolism, Glycolysis, TCA, HMP, Glycogen synthesis and degradation, Blood glucose regulation), Lipids: (Chemistry, Metabolism, Intestinal uptake, Fat transport, Utilisation of stored fat, Activation of fatty acids, Beta oxidation and synthesis of fatty acids), Proteins: (Chemistry, Metabolism, Digestion

of protein, Transamination, Deamination, Fate of Ammonia, Urea cycle, End products of each amino acid and their entry into TCA cycle, Enzymes: (Definition, Classification, Biological Importance, Diagnostic use, Inhibition), Vitamins: (Daily requirements, Dietary source, Disorders and physiological role), Minerals (Daily requirement, Dietary Sources, Disorders and physiological role), Organ function tests.

## 5. **General concepts**

History of pharmacy with emphasis on emergence of Homoeopathic Pharmacy, Official Homoeopathic Pharmacopoeia (Germany, Britain, U.S.A., India), Important terminologies like scientific names, common names, synonyms, Definitions in homoeopathic pharmacy, Components of Pharmacy, Weights and measurements, Nomenclature of homoeopathic drugs with their anomalies.

## 6. **Materia medica**

**Basic material medica:** Source of materia medica, Drug providing, and collection of symptoms-classification of symptoms, construction of material medica, Science and philosophy of material medica, Scope and limitations of material medica, Source of drugs, family of group characteristics and drug relationship.

**Comparative material medica:** Comparative study of symptoms, drug pictures therapeutic indications of all drugs.

**Homoeopathic Materia Medica:** Definition of Homoeopathic Materia Medica, Basic concept and construction of Homoeopathic Materia Medica., Classification of Homoeopathic Materia Medica, Sources of Homoeopathic Materia Medica, Scope and Limitations of Homoeopathic Materia Medica.

## 7. **Science and philosophy of homoeopathic materia medica**

Different ways of studying homoeopathic materia medica, Scope and

limitations of homoeopathic materia medica. Concordance or remedy relationships, Comparative homoeopathic materia medica, Comparative study of symptoms, drug pictures, drug relationships, Theory of biochemic system of medicine, its history, concepts and principles according to Dr. Wilhelm Heinrich Schuessler. Study of 12 biochemic medicines (tissue remedies). Homoeopathic Medicines concept of nosodes – definition and types of nosodes, general indications of nosodes, concepts of constitution, temperaments, diathesis- definitions, various concepts of constitution with their peculiar characteristics, importance of constitution, temperaments and diathesis and their utility in treatment of patients, Concept of mother tincture.

**8. Homeopathic pharmacy**

Basics of Homeopathic pharmacy, standardization of drugs and vehicles, Homoeopathic drug providing, Drugs laws and legislation relating to homoeopathic pharmacy.

**9. Pathology**

Pathology in relation with Homoeopathic Materia Medica, Correlation of miasms and pathology, Characteristic expressions of each miasms, Classification of symptoms and diseases according to pathology, Pathological findings of diseases; their interpretation, correlation and usage in the management of patients under homoeopathic treatment.

**10. Pharmacodynamics**

Homoeopathic Pharmacodynamics, Drug Proving and merits and demerits of Drug Proving on Humans and Animals, Pharmacological study of following drugs: Aconitum napellus, Adonis vernalis, Allium cepa, Argentum nitricum, Arsenicum album, Atropa Belladonna, Cactus grandiflorus, Cantharis vesicatoria, Cannabis indica, Cannabis sativa,

Crataegus oxyacantha, Crotalus horridus, Gelsemium sempervirens, Glonoinum, Hydrastis Canadensis, Hyoscyamus niger, Kali bichromicum, Lachesis, Lithium carbonicum, Mercurius cotTosivus, Naja tripudians, Nitricum acidum, Nux vomica, Passiflora incarnate, Stannum metallicum, Stramonium, Symphytum officinale, Tabacum.

**11. Research methodology**

Research Biomedicine, Need of Research and Research Challenges in Homoeopathy, Types of Research Studies. Planning of Research Studies, Design and control of clinical trials, Data collection and Data management, Assessing and reporting adverse events, Ethical issues in biomedical research, Writing & Publishing research studies.

**12. Biostatistics**

Definition and scope of Biostatistics in clinical research, Types of data methods of data presentation, Descriptive statistics (Mean, Median, Mode, SD and Variance etc.), Correlation and regression, sampling techniques and sample size estimation, Measure of Mortality, Data analysis, Use of statistical software, Organon of Medicine and Homoeopathic philosophy, Homoeopathic material medica, and Repertory.

**13. Legislations relating to medical profession**

The Homoeopathy Central Council Act, 1973 (59 of 1973). The Medical Termination of Pregnancy Act, 1971 (34 of 1971); the Drugs and Cosmetics Act, 1940 (23 of 1940) and the rules made therein; Pre-natal Diagnostic Techniques (Regulation and Prevention of Misuse) Act, 1994. Homoeopathic Practitioners (Professional Conduct, Etiquette and Code of Ethics) Regulations, 1982.

**14. Current Trends and recent Advancements in the field of Homeopathic Pharmacy.**