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CHEMIST GRADE II HEALTH SERVICES(CATEGORY NOS.554/2014) SYLLABUS

Part I

Natural Products:Definition,Classification and brief chemistry of alkaloids,glycosides,terpenoids,volatile oils,tannins,resins etc

Biological source,constituents,identification tests and pharmacological uses of Cinchona,cinnamon,castor oil,cardamom,ginger,opium,clove,peppermint oil,honey,fennel and nutmeg.

Part II

Chemistry in Everyday life:Definition,classification,brief chemistry ,Mechanism of action and therapeutic uses of analgesics,antipyretics,anti-inflammatory agents,hypnotics and sedatives,narcotics and psychotropic drugs,anaesthetics,antiseptics and disinfectants,antihistamines,antihypertensive drugs,anti-diabetic drugs,cosmetics.Dyes-different types and examples

Part III

Biomolecules:Definition,Classification,brief chemistry,qualitative tests and metabolism of carbohydrate,protein and lipids.Deficiency diseases and diseases related to their metabolism Classification of amino acids.Brief chemistry and role of vitamins and coenzymes.Enzymes,Minerals,Hormones,DNA,RNA

Part IV:

Quality control of Pharmaceuticals:Source of Impurities in Pharmaceuticals,Purification methods of Pharmaceuticals,test for purity,limit tests for arsenic ,lead,sulphate,chloride,iron and heavy metals.

Part V

General Chemistry Stoichiometry,Chemical bonding,Periodic properties,States of matter,Solutions,chemical kinetics,Thermodynamics,Electro chemistry

Part VI

Organic chemistry Hydrocarbons,cycloalkanes,physical properties,functional groups,IUPAC nomenclature,concept of aromaticity,Stereochemistry of organic compounds.

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Part VII

Environmental Chemistry Pollution-soil,water,air pollutants.Greenhouse effect,acid rain,ozone depletion,industrial and nuclear waste,Polymers-different types,examples and effect on environment,Soaps and detergents,Water treatment,Green chemistry

Part VIII

Analytical chemistry Acids and bases,buffers,water analysis,qualitative analysis of anions and systematic analysis of cations.Principle of titrations-acidimetry,redox,Complexometry,Precipitation titrations.Principle of UV-Visible spectroscopy,IR spectroscopy,NMR,mass spectrometry

PART IX-General Knowledge,Current Affairs & Renaissance in Kerala

Salient Features of Indian Constitution Salient Features of the Constitution-Preamble-Its significance and its place in the interpretation of the Constitution.

Fundamental Rights-Directive Principles of State Policy-Relation between Fundamental Rights and Directive Principles-Fundamental Duties.

Executive-Legislature-Judiciary-Both at Union and State Level-Other Constitutional Authorities.

Centre-State Relations-Legislative-Administrative and Financial.

Services under the Union and the States.

Emergency Provisions

Amendment Provisions of the Constitution

Social Welfare Legislations and programmes

Social Service Legislations like Right to Information Act,Prevention of atrocities against Women & Children,Food Security Act,Environmental Acts etc.and social Welfare Programmes like Employment Guarantee Programme,Organ and Blood Donation etc.

RENAISSANCE IN KERALA

Towards A New Society

Introduction to English education-various missionary organizations and their functioning-founding of educational institutions,factories,printing press etc.Efforts To Reform The Society

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(A)Socio-Religious reform Movements

SNDP Yogam,Nair Service Society,Yogakshema Sabha,Sadhu Jana Paripalana Sangham,Vaala Samudaya Parishkarani Sabha,Samathwa Samajam,Ishlam Dharma Paripalana Sangham,Prathyaksha Raksha Daiva Sabha,Sahodara Prasthanam etc.

(B)Struggles and Social Revolts

Upper clothrevolts.Channaragitation,Vaikom Sathyagraha,Guruvayoor Sathyagraha,Paliyam Sathyagraha.Kuttamkulam Sathyagraha,Temple Entry Proclamation,Temple Entry Act.Malayalee Memorial,Ezhava Memorial etc.

Malabar riots,Civil Disobedience Movement,Abstention movement etc.

Role of Press in Renaissance

Malayalee,Swadeshabhimani,Vivekodayam,Mithavadi,Swaraj,Malayala Manorama,Bhashapohini,Mathrubhoomi,Kerala Kanmudi,Samadarsi,Kesari,Al-Ameen,Prabhatham,Yukthivadi,etc.

Awakening Through Literature

Novel,Drama,Poetry,Purogamana Sahithya Prasthanam,Natoka Prashtanam,Library movement etc

Women and Social Change

Parvathi Nenmenimangalam,Arya Pallam,A V Kuttimalu Amma,Lalitha Prabhu.Akkamma Cheriyan,Anna Chandi,Lalithambika Antharjanam and others

Leaders of Renaissance

Thycaud Ayya Vaikundar,Sree Narayana Guru,Ayyan Kali.Chattampi Swamikal,Brahmananda Sivayogi,Vagbhadananda,Poikayil Yohannan(Kumara Guru)Dr.Palpu,Palakkunath Abraham Malpan,Mampuram Thangal,Sahodaran Ayyappan,Pandit K P Karuppan,Pampadi John Joseph,Mannathu Padmanabhan,V.T. Bhattathirippad,Vakkom Abdul Khadar Maulavi,Makthi Thangal,Blessed Elias Kuriakose Chavara,Barrister G P Pillai,T K Madhavan,Moorkoth Kumaran,C.Krishnan,K P Kesava Menon,Dr.Ayyathan Gopalan,C V Kunjuraman,Kuroor Neelakantan Namboothiripad,Velukkutty Arayan,K P Vellon,P K Chathan master,K Kelappan,P.Krishna Pillai,A K Gopalan,T.R.Krishnaswami Iyer,C Kesavan.Swami Ananda Theerthan,M C Joseph,Kuttippuzha Krishnapillai and others

Literary Figures

Kodungallur Kunhikkuttan Thampuran,Kerala Varma Valiyakoyi Thampuran ,Kandathil Varghese Mappila.Kumaran Asan,Vallathol Narayana Menon,Ulloor S Parameswaralyer,G

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SankaraKurup,Changampuzha Krishna Pillai,Chandu Menon,Vaikom Muhammad Basheer .Kesav
Dev,Thakazhi Sivasankara Pillai,Ponkunnam Varky,S K Pottakkad and others

GENERAL KNOWLEDGE AND CURRENT AFFAIRS

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