

જાહેરાત ક્રમાંક :- ૨૦૮/૨૦૦૯-૨૦૧૦, જગ્યાનું નામ:- સરકારી ફાર્મસી કોલેજ (ડીગ્રી) ખાતેના વ્યાખ્યાતા, વર્ગ-૨
પરીક્ષાની તારીખ :- ૧૧-૦૭-૨૦૧૦, સમય :- સવારે ૦૨-૦૦ થી ૦૩-૪૦

ક્રમ	પ્રશ્નપત્રનો વિષય	સમય	માધ્યમ	ગુણ
૧.	ભાગ-૧: સામાન્યજ્ઞાનના ૧૦૦ પ્રશ્નો. દરેક પ્રશ્નના ૦૧ ગુણ	૧૦૦ મિનિટ	ગુજરાતી	૧૦૦
૨.	ભાગ-૨: સંબંધિત વિષયના ૧૦૦ પ્રશ્નો દરેક પ્રશ્નના ૦૨ ગુણ. અભ્યાસક્રમ : નીચે દર્શાવ્યા મુજબ :		અંગ્રેજી	૨૦૦

**Syllabus of Preliminary Test (Objective Type) for the Post of Lecturer in Pharmacy
at Govt. Pharmacy Degree College**

Natural Products :- Pharmacognosy - Chemistry tests, isolation, characterization and estimation of phytopharmaceuticals belonging to the group of alkaloids, Glycosides, Terpenoids, Steroids, Bioflavonoids, purines, Guggul lipids, Pharmacognosy of crude drugs that contain the above constituents, Standardization of raw materials and herbal products. WHO guidelines quantitative microscopy including modern techniques used for evaluation. Biotechnological principles and techniques for plant development, Tissue culture.

Pharmacology : General pharmacological principles including Toxicology, Drug interaction Pharmacology of drugs acting on Central nervous system, Cardiovascular system, Autonomic nervous system Gastro intestinal system and Respiratory system. Pharmacology of Autocoids, Hormones, Hormone antagonists, chemotherapeutic agents including anticancer drugs, Bioassays, Immuno Pharmacology. Drugs acting on the blood and blood forming organs, Drugs acting on the renal system.

Medicina Chemistry :- Structure, nomenclature, classification, synthesis, SAR and metabolism of the following category of drugs, which are official in Indian Pharmacopoeia and British Pharmacopoeia. Introduction to drug design, Stereochemistry of drug molecules. Hypnotics and Sedatives, Analgesics, NSAIDS, Neuroleptics, Antidepressants, Anxiolytics, Anticonvulsants, antihistaminics, Local anaesthetics, Cardio Vascular drugs - Antianginal agents Vasodilators, adrenergic and Cholinergic drugs. Cardiotonic agents, Diuretics, Antihypertensive drugs. Hypoglycemic agents. Antilipemic agents, Coagulants, Anticoagulants, Antiplatelet agents, Chemotherapeutic agents - Antibiotics, Antibacterials, Sulphadruugs. Antiprotozoal drugs Antiviral antitubercular, Antimalarial, Anticancer, Antiamoebic drugs. Diagnostic agents. Preparation and storage and uses of official Radiopharmaceuticals, Vitamins and Hormones. Eicosonoids and their application.

Pharmaceutics :- Development, manufacturing standards Q.C. limits, labeling as per the pharmacopoeal requirements. Storage of different dosage forms and new drug delivery systems. biopharmaceutics and Pharmacokinetics and their importance in formulation. Formulation and preparation of cosmetics - lipstick, shampoo, creams, nail preparatikon and dentifrices. Pharmaceutical calculations.

Pharmaceutival Jurisprudences :- Drugs and cosmetics Act and rules with respects of manufacture, sales and storage, Pharmacy Act, Pharmaceutical ethics.

Pharmaceutical Analysis :- Principles instrumentation and applications of the following: Absorption spectroscopy (UV, visible and IR). Fluorimetry, Flame photometry, Potentiometry. Conductometry and Plarography. Pharmacopocal assays. Principles of NMR, ESR. Mass spectroscopy. X-ray diffractions analysis and different chromatographic methods.

Biochemistry :- Biochemical role of hormones, Vitamins, Enzymes, Nucleic acids, Bioenergetics. General principles of immunology. Immunologicval, metabolism of carbohydrate, lipids, proteins, Methods to determine, kidney and liver function, Lipid profiles.

Microbiology :- Principles and methods of microbiological assays of the Pharmacopoes/ Methods of preparation of official sera and vaccines. Serological and diagnostics tests. Applications of microorganisms in Bio Conversions and in Pharmaceutical industry.

Clinical Pharmacy :- Therapeutic Drug Monitoring Dosage regimen in Pregnancy and Lactation, Pediatrics and Geriatrics. Renal and hepatic impairment. Drug-Drug interactions and Drug-food interactions, Adverse Drug reactions Medication History, interview and Patient counseling.

નોંધ :- આયોગ દ્વારા તા. ૧૧-૦૭-૨૦૧૦ના રોજ જાહેરાત ક્રમાંક: ૧૯૯ થી ૨૦૮/૨૦૦૯-૨૦૧૦ની પ્રાથમિક કસોટી લેવાનાર છે, તે પૈકી તા. ૨૩-૮-૨૦૧૦ થી રસાયણશાસ્ત્ર વિષયની (જાહેરાત ક્રમાંક: ૨૦૩ અને તે પછી ૧૯૯) રૂબરૂ મુલાકાત શરૂ થશે અને ત્યારબાદ ઈજનેરી કોલેજ ખાતેના બાકીના વિષયોના વ્યાખ્યાતાઓની રૂબરૂ મુલાકાત શરૂ થશે, જેનો વિગતવાર કાર્યક્રમ આયોગની વેબસાઈટ પર યથા સમયે મૂકવામાં આવશે.