केन्द्रीय प्रौद्योगिकी संस्थान कोकराझार
CENTRAL INSTITUTE OF TECHNOLOGY KOKRAJHAR
Deemed to be University, MoE, Govt. of India
Kokrajhar-783370, Assam www.cit.ac.in

RECRUITMENT TO THE POST OF PHARMACIST ON REGULAR BASIS

ADVT. NO. CITK/RECRUIT/NON-TEACHING/174/2022/144, DT.22/05/2023

LIST OF THE SHORTLISTED CANDIDATES

Sl. No.	Application No.
1.	20230035
2.	20230050
3.	20230066
4.	20230092
5.	20230114
6.	20230168
7.	20230193
8.	20230199
9.	20230201
10.	20230227
11.	20230260
12.	20230274
13.	20230282
14.	20230289
15.	20230300
16.	20230331
17.	20230336
18.	20230337
19.	20230351
20.	20230354
21.	20230402
22.	20230574
23.	20230610
24.	20230613
25.	20230662

Note:

1) The dates for written test will be announced to all the above candidates through Institute's website shortly.
2) You are hereby requested to check the Institute's website on daily basis.
3) No further correspondence/observation will be entertained regarding aforesaid post.

-Sd-
Registrar, CIT Kokrajhar

The selection process and indicative syllabus for the post of Pharmacist is as follows:

Written Test: The syllabus for written test (computer based) is as detailed below:

i. **Verbal Aptitude Basic English grammar:** Tenses, articles, adjectives, prepositions, conjunctions, verb-noun agreement, and other parts of speech Basic vocabulary: words, idioms, and phrases in context Reading and comprehension Narrative sequencing.

ii. **Quantitative Aptitude:** Data interpretation: data graphs (bar graphs, pie charts, and other graphs representing data), 2- and 3-dimensional plots, maps, and tables Numerical computation and estimation: ratios, percentages, powers, exponents and logarithms, permutations and combinations, and series Mensuration and geometry Elementary statistics and probability.

iii. **Analytical Aptitude**: Logic: deduction and induction; Analogy Numerical relations and reasoning.

iv. **Spatial Aptitude:** Transformation of shapes: translation, rotation, scaling, mirroring, assembling,and grouping Paper folding, cutting, and patterns in 2 and 3 dimensions.

CORE BRANCH SYLLABUS

i. Pathophysiology: Basic principles of cell injury and adaptation, Basic mechanism of inflammation and repair, Hypersensitivity, Autoimmunity and diseases of immunity, Neoplastic diseases, Shock, Biological effects of radiation, Protein-calorie malnutrition, vitamins, Obesity and starvation, Pathophysiology of common diseases, Infectious diseases.

ii. Pharmaceutics: Pharmacy profession, Introduction to pharmaceuticals, Intro Route of administration, Sources of drug information, Allopathic dosage introduction to dosage form, form, Crude extract, Allergenic extract Ayurvedic system of medicine, Homeopathic system of medicine, Biological products, GMP, Pharmaceutical plant, location, layout Dosage form necessities and additives, Powders, Capsules, Tablets Parenteral products requiring sterile packaging, Suspensions Emulsions, Suppositories, Semisolids, Liquids, Pharmaceutical aerosols Ophthalmic preparations, Preformulations , Radiopharmaceuticals Stability of formulated products, Kinetic principles and stability testing Prolonged action pharmaceuticals, Novel drug delivery system, Cosmetics, Packaging material, GMP and validation, Pilot plant scale-up techniques.

iii. Pharmacology: General pharmacology, Pharmacokinetics, Pharmacodynamics, Pharmacology for peripheral nervous system, Pharmacology of cardiovascular system, Drugs acting on urinary system, Drugs acting on the respiratory system, Pharmacology of central nervous system, Pharmacology of endocrine system, Chemotherapy, Autacoids and their antagonists, Pharmacology of drugs acting on the gastrointestinal tract, Chronopharmacology, Immunopharmacology, Chemotherapy of malignantdiseases, Peptides and proteins toxicology.

iv. Pharmacognosy: Introductory Pharmacognosy, Classification of crude drugs, Sources of crude drugs, Factors influencing quality of crude drugs, Techniques in microscopy, Introduction to phytoconstituents, Principles of plant classification, Pharmaceutical aids, Animal products, Plant products, Toxic drugs, Enzymes, Natural pesticides and insecticides,

Adulteration and evaluation of crude drugs, Quantitative microscopy, Biogenetic pathways, Carbohydrates and lipids, Tannins, Volatile oils, Resinous drugs, Glycocides, Alkaloids, Herbarium, Extraction and isolation techniques, Phytopharmaceuticals, Quality control and standardization of herbal drugs, Herbal formulations, Worldwide trade of crude drugs and volatile drug, Plant biotechnology, Herbal cosmetics, Traditional herbal drugs, Plant-based industries and research institutes in India Patents.

v. **Dispensing and Hospital Pharmacy:** Introduction to laboratory equipment, weighting methodology, handling of prescriptions, labeling instructions for dispensed products. Preparations based on percolation process. Preparations based on maceration process. Study of difference betweenmarketed and dispensed products of different dosage forms. Posological calculations involved in the calculation of dosage for infants. Enlarging and reducing formula, displacement value. Preparations of formulations involving allegation, alcohol dilution, isotonic solution.

vi. **Pharmaceutical Engineering:** Fluid flow, Heat transfer, Evaporation, Distillation, Drying, Size reduction and size separation, Fluid flow, Heat transfer, Evaporation, Distillation, Drying, SizeExtraction, Mixing, Crystallization, Filtration and centrifugation, Dehumidification and humidity control, Refrigeration and air conditioning, Material of constructions, Automated process control systems, Industrial hazards and safety precautions.

vii. **Clinical pharmacy and therapeutics:** General Principles, preparation, maintenance, analysis of observational records in Clinical Pharmacy, Clinical trials, type and phases of clinical trials, placebo ethical and regulatory issues including Good clinical practice in clinical trials, Therapeutic drug monitoring, adverse drug reaction (ADR), types of ADR, Mechanism of DR. Drug interaction, Monitoring and reporting of ADR and its significance, Drug information services, Drug interactions, Drug interaction in pediatric and geriatric patients, drug treatment during pregnancy, lactation and menstruation, Pharmacovigilance, Therapeutic drug monitoring, Nutraceutical ls, essential drugs and rational drug usage, Age-relate drug therapy: concept of posology, drug pediatrics and geriatrics. Drug therapy in gastrointestinal, hepatic, renal, cardiovascular, and respiratory Disorders, Drug therapy for neurological and psychological disorders, Drug therapy in infections of the respiratory system, urinary system, infective meningitis, TB, HIV, malaria, and filaria. Drug therapy for thyroid and parathyroid disorders, diabetes mellitus, menstrual cycle disorders, menopause, and male sexual dysfunction, Drug therapy for malignant disorders like leukemia, lymphoma, and solid tumors Drug therapy for rheumatic, eye, and skin disorders.

-Sd-
Registrar, CIT Kokrajhar