



## भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान मोहाली

(शिक्षा मंत्रालय, भारत सरकार)

सैक्टर-81, नॉलेज सिटी, डा. घ. मनौली, सा. अ. सिं. नगर, मोहाली, पंजाब -140306

### INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH MOHALI

(Ministry of Education, Govt. of India)

Sector – 81, Knowledge City, P. O. Manauli, S. A. S. Nagar, Mohali, Punjab -140306

Dated: 28.11.2024

### सूचना / NOTICE

Ref.: Advt. No. IISERM/NF (02)/Contractual/2024-25 Dated: 04.09.2024

#### Pattern of written examination for the post of “Pharmacist” (Post Code – 05)

1. The written examination will be a Multiple Choice Questions (MCQs) based exam and duration will be of **60 minutes**.
2. The question paper will consist of total **50 Multiple Choice Questions** (MCQs) with **total 100 marks** and candidates are required to attempt all the questions.
3. Each question will have 4 options i.e. A, B, C and D and only one correct answer.
4. The candidates will be awarded +2 marks for each correct answer encircled in the OMR sheet.
5. For each incorrect answer encircled in the OMR sheet, 0.5 marks will be deducted.
6. If a question is left blank/unanswered, there will be no penalty for that question.
7. If a candidate encircles more than one answer, it will be treated as wrong answer even if one of the given answers happens to be correct and there will be penalty of 0.5 marks deduction.

#### Syllabus for written examination:

- **English Language:** Sentence completion/correction, inferences, Reading comprehension, English Grammar, Verbal Analogies, Critical reasoning, Word meaning, Synonyms and Antonyms etc.
- **Reasoning:** Up to Graduation Standard. Numerical computation, Numerical Estimation, Numerical Reasoning, Data reasoning and Data interpretation etc.
- **General Knowledge:** Current affairs, Indian History, Indian Polity, Indian constitution, General Economics & Geography-up to Graduation Standard, etc.
- **Mathematical Aptitude:** Area & Volume, Average, LCM, HCF, Percentage, Arithmetic Calculation, Profit and Loss, Ratio & Proportion etc.
- **Domain:** Only indicative but not exhaustive:

**Pharmaceutical Jurisprudence:** Pharmacy Act, 1948, The Drugs and Cosmetics Act, 1940, The Drugs and Magic Remedies (Objectionable Advertisement) Act, 1954, Narcotic Drugs and Psychotropic substance Act, 1985.

**Human Anatomy and Physiology:** Scope of Anatomy and physiology, Elementary tissues, Skeletal System, Respiratory System, Urinary System, Muscular System, Central Nervous System, Sensory Organs, Digestive System, Endocrine System, Reproductive System etc.

**Biochemistry and Clinical Pathology:** Introduction to Biochemistry, Carbohydrates, Lipids, Vitamins, Enzymes, Therapeutics etc.

**Pharmaceutics:** Prescriptions, Incompatibilities in prescriptions, Posology, Dispensed Medications, Powders etc.

**Pharmaceutical Chemistry:** Antiseptics and Disinfectants, Sulphonamides, Antileprotic Drugs, Antibiotics, Antifungal agents, Antimalarial Drugs, Tranquilizers, Antidepressant Drugs, Adrenergic drugs, Adrenergic antagonists, Cholinergic Drugs, Cholinergic Antagonists, Diuretic Drugs, Anti-Neoplastic Drugs etc.

**Pharmacology & Toxicology:** Introduction to Pharmacology, Scope of Pharmacology, Routes of administration of drugs, General mechanism of drugs action, Autocoids, Drugs affecting renal function, Hormones and hormone antagonists, Drugs acting on digestive system etc.

**Drug Store and Business Management:** Introduction, Drug house management, Inventory Control, Market Research etc.

**Clinical Pharmacy:** Disease, Physiological parameters with their significance, Drug interactions, Adverse Drug Reaction, Drugs in Clinical Toxicity, Drug dependences, Bio-availability of drugs.

भर्ती प्रकोष्ठ / Recruitment Cell

भा. वि. शि. अ. सं. मोहाली / IISER Mohali

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