

राष्ट्रीय औषधीय शिक्षा एवं अनुसंधान संस्थान (नाईपर)
National Institute of Pharmaceutical Education & Research (NIPER)
सैक्टर-67, एस०ए०एस० नगर (मोहाली), पंजाब - 160062

RECRUITMENT CELL/1401
 25th January, 2023 (Wednesday)

NOTICE

With reference to the Advertisement No. 10/2022 dated 20.08.2022 for the post of Veterinary Officer, the syllabus for written test is notified as under:

S. No.	Subject	Syllabus
1.	Veterinary Sciences	<ul style="list-style-type: none"> ○ Animal Breeding and Genetics ○ Animal Nutrition ○ Livestock Production and Management ○ Livestock Products Technology ○ Veterinary Anatomy ○ Veterinary Physiology and Biochemistry ○ Veterinary Microbiology ○ Veterinary Pharmacology and Toxicology ○ Veterinary Parasitology ○ Veterinary Pathology ○ Veterinary Public Health ○ Veterinary and Animal Husbandry Extension ○ Animal Reproduction, Gynecology and Obstetrics ○ Veterinary Medicine ○ Veterinary Surgery and Radiology
2.	Laboratory Animal Sciences	Regulatory guidelines (Acts, rules and guidelines) on animal experimentation, Animal welfare, CCSEA, Ministry of Animal Husbandry, Dairying and Fisheries/IAEC guidelines. Basics of biology and husbandry practices of laboratory animals (mouse, rat, hamster, guinea pig, rabbit, Gerbil, Mastomys, dog, non-human primate etc.), records keeping, planning and execution animal experiments, breeding of laboratory animals, environmental enrichment, animal feed and nutritional requirement, experimental techniques viz. handling, sexing, injections/immunization, blood collection, anesthesia, humane end points in animal experiments and euthanasia, surgical techniques, pre and post-operative care, Laboratory Animal Bio-security (Prevention, containing and eradication), biosafety laboratories and occupational hazards, diseases of laboratory animals, genetic and health monitoring of laboratory animals, Common Zoonotic Diseases and Prevention, biostatistics in animal research. Genetic manipulations and Transgenesis: Principles and methods, Animal models of human diseases, Transgenic and Knockout Models for specific diseases. Alternative Models (cell based in vitro tests, Yeast, Drosophila, C. elegans, Zebrafish), advantages and disadvantages. Good Laboratory Practices (GLP), GLP establishment, GLP audits and inspection, Schedule Y to design non-clinical toxicity studies and clinical development. OECD/ICH/FDA guidelines, Principles and Classification of toxicology, Toxicokinetics, Test for mutagenicity,

		<u>Contd...</u> teratogenicity, phototoxicity, carcinogenicity, toxicogenomics, target organ toxicology and preclinical toxicology, Basic principles of pharmacokinetics, Concepts related to absorption, distribution, metabolism and Elimination (ADME), Factors influencing absorption of drugs, pharmacodynamics.
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- Written test will be conducted at NIPER, SAS Nagar (Mohali).
- Date of Written Test will be notified in due course of time.
- All eligible candidates shall be intimated through e-mail and by speed post at their correspondence address provided in the application form.
- Written test will comprise 50 MCQs of 50 marks and duration of test will be 90 minutes.
- There will be negative marking. One (01) mark will be awarded for each right answer and half (0.5) mark will be deducted for each wrong answer.

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