SYLLABUS FOR COMPUTER BASED TEST (CBT) FOR THE RECRUITMENT OF TECHNICAL OFFICER-B (Veterinary & Animal Care) IN ICMR-NICED, KOLKATA

Reference Vacancy Notification No. NICED/02/2023 dated 29-09-2023

1. **Written Examination**: Paper as per subject specialization and general awareness
2. **Level of Questions:** Graduate Level
3. **Marks:** Total 80 marks of 80 minutes duration. **Section-I** is of 60MCQs related to subject specialization (Veterinary & Animal Care related topics as mentioned below) and **Section-II** is of 20 MCQs related to computing skills, General/Scientific Knowledge, Current affairs including developments in Biomedical Sciences, Common Sense, Analytical Skills, Statistics, General Awareness etc.
4. **Marking Scheme**: 1 mark for each correct answer and 0 mark for unattended & minus 0.25 for each incorrect answer.
5. **Subject / Specialization**: The questions will be designed to test the ability of candidate in the technical subject. The questions will be technical and scientific in nature depending on the specialization and level of the post demanded. Syllabus is given with reference to the post Code.

Syllabus for Veterinary & Animal Care:

Laboratory Animal Care (Veterinary Anatomy, Veterinary Physiology, Veterinary Biochemistry, Veterinary Pharmacology and Toxicology, Veterinary Parasitology, Veterinary Microbiology, Veterinary Pathology, Veterinary Public Health and Epidemiology, Animal Nutrition, Animal Genetics and Breeding, Livestock Production Management, Livestock Products Technology, Animal Welfare and Ethics, Laws relating to prevention of Cruelty of Animals etc).

CPCSEA/IAEC regulatory guidelines and animal ethics in laboratory ethics in Lab research and overview of different animal models, animal import, breeding strategies, feeding, management and supply for experiments of lab animals, standard nomenclature of mice and rats including genetically modified animals. Health monitoring/ surveillance of mice and rat colony (definition, importance and microbiological characteristics of lab animals, microbiota and its influence in animal models, clinical biochemistry and hematology).

Non-Clinical safety evaluation, regulatory protocols (before clinical trial, prevalentinfectious agents of rodent colonies, lab animal handling and physical and chemical restraint with special reference to euthanasia abiding ethics, 3R's (replacement, reduction and refinement) in animal model research. Bio-methodology for lab rodents (anesthesia and analgesia), recognition of pain, animal identification, basic principles of surgery, post-surgical care. Human animal relations and one health concepts. The lab animals for high risk zoonotic virus research, genetically modified animals, genetically defined lines of mice and rats and other rodents used in animal experiments, genetic markers used in lab rodents. Zebra Fish model in biomedical research and drug developments introduction to basic statistical concepts and its applications in animal model research, good lab practice: principles and applications in research.

Syllabus for General Awareness, Language and Computer Skills

General/Scientific Knowledge (including History of ICMR), Current Affairs including developments in Biomedical Sciences, Common Sense, Analytical Skills, Statistics, General Awareness, English Language and Comprehension and Computing Skills (MS Office, Internet, MS Power point etc.)