

Appendix 5

TEST SPECIFICATIONS

VETERINARY TECHNICIAN NATIONAL EXAMINATION (VTNE)

DOMAIN 10.00 Pharmacy and Pharmacology (14%, 28 items)

- TASK 10.01 Prepare, administer, and/or dispense pharmacological and biological agents (excluding anesthetics and analgesics) to comply with veterinary prescriptions.
- TASK 10.02 Educate the client regarding pharmacological and biological agents (excluding anesthetics and analgesics) administered or dispensed to ensure the safety of the patient/client and efficacy of the products.

DOMAIN 20.00 Surgical Preparation and Assisting (16%, 32 items)

- TASK 20.01 Prepare and maintain the surgical environment, equipment, instruments, and supplies to meet the needs of the surgical team and patient.
- TASK 20.02 Prepare patient for procedure, including surgical site scrub and patient positioning.
- TASK 20.03 Function as a sterile surgical technician (including but not limited to tissue handling, suturing, instrument handling) to ensure patient safety and procedural efficiency.
- TASK 20.04 Function as a circulating (non-sterile) surgical technician to ensure patient safety and procedural efficiency.

DOMAIN 30.00 Dentistry (8%, 16 items)

- TASK 30.01 Prepare and maintain the environment, equipment, instruments, and supplies for dental procedures to meet the needs of the dental team and patient.
- TASK 30.02 Perform or assist with dental procedures (including but not limited to prophylactic, radiographic, therapeutic, charting) to maintain the dental health of the patient and aid in the treatment of dental disease.
- TASK 30.03 Educate the client regarding dental health, including prophylactic and post-treatment care.

DOMAIN 40.00 Laboratory Procedures (15%, 30 items)

- TASK 40.01 Collect, prepare, and maintain specimens for in-house or outside laboratory evaluation.
- TASK 40.02 Perform laboratory tests and procedures (including but not limited to serology, cytology, hematology, urinalysis, parasitology).
- TASK 40.03 Maintain laboratory equipment and related supplies to ensure safety of operation and quality of results.

DOMAIN 50.00 Animal Care and Nursing (24%, 48 items)

TASK 50.01 Perform and document initial and ongoing evaluations of physical, behavioral, nutritional, and environmental status of animals to provide for optimal animal/client safety and health.

TASK 50.02 Perform animal nursing and clinical diagnostic procedures (including but not limited to post-operative care, catheterization, wound management, blood pressure measurement, electrocardiography) to aid in diagnosis, prognosis, and implementation of prescribed treatments

TASK 50.03 Educate clients and the public about animal care (including but not limited to post-operative care, preventive care, zoonosis) to promote and maintain the health of animals and the safety of clients/public.

TASK 50.04 Provide a safe, sanitary, and comfortable environment for animals to ensure optimal healthcare and client/personnel safety.

DOMAIN 60.00 Diagnostic Imaging (8%, 16 items)

TASK 60.01 Produce diagnostic images (excluding dental) following safety protocols for operator and patient.

TASK 60.02 Maintain imaging equipment and related materials to ensure safety of operation and quality of results.

DOMAIN 70.00 Anesthesia and Analgesia (15%, 30 items)

TASK 70.01 Assist in development of the anesthetic plan to ensure patient safety and procedural efficacy.

TASK 70.02 Implement the anesthetic plan (including but not limited to administration, monitoring, maintenance) to facilitate diagnostic, therapeutic, or surgical procedures.

TASK 70.03 Prepare and maintain anesthetic equipment and related materials to ensure safety and reliability of operation.

TASK 70.04 Assess need for analgesia and assist in the development and implementation of the analgesic plan to optimize patient comfort and/or healing.

TASK 70.05 Educate the client with regard to analgesic administration and the side effects of anesthetics and analgesics to ensure the safety of the patient/client and efficacy of the product(s) or procedure(s).

KNOWLEDGE

- 01 Anatomy
- 02 Normal physiology including theriogenology (reproduction)
- 03 Pathophysiology (diseases and disease processes)
- 04 Common animal diseases
- 05 Medical terminology
- 06 Toxicology
- 07 Applied mathematics (including but not limited to metric system/weights, measures/percentage solutions, dosage calculations)
- 08 Drug classification
- 09 Routes of administration of pharmacological and biological agents
- 10 Legal requirements and procedures for preparing, storing, and dispensing pharmacological and biological agents
- 11 Contraindications, side effects, and normal and abnormal drug reactions and interactions
- 12 Fluid balance and therapy
- 13 Aseptic techniques
- 14 Sterilization techniques and quality assurance for equipment and supplies
- 15 Patient positioning techniques (including but not limited to diagnostic imaging, surgery)
- 16 Surgical procedures
- 17 Sterile and circulating (non-sterile) surgical assisting procedures and instrumentation
- 18 Suturing methods and techniques
- 19 Dentistry procedures (including but not limited to cleaning, floating, charting, preventive procedures, dental imaging)
- 20 Dental equipment, instruments, and supplies
- 21 Sample collection, preparation, storing, and shipping techniques
- 22 Laboratory diagnostic principles and procedures (e.g., hematology, cytology, urinalysis, serology, immunology, microbiology, parasitology)
- 23 Quality assurance in the laboratory (including but not limited to maintenance of equipment, verification of test results, calibration, controls)
- 24 Implications of abnormal laboratory and diagnostic test results

- 25 Animal assessment and monitoring techniques (including but not limited to surgery, hospitalization, physical exam, and excluding anesthetic monitoring)
- 26 Principles of animal behavior
- 27 Clinical diagnostic procedures (including but not limited to blood pressure measurement, electrocardiography, tonometry)
- 28 Nutrition
- 29 Animal handling and restraint techniques
- 30 Animal husbandry
- 31 Animal nursing procedures (including but not limited to pre/post-operative care technique, casting, bandaging)
- 32 Animal first aid, triage, and emergency/critical care techniques
- 33 Public health (including but not limited to zoonosis, epidemiology)
- 34 Environmental health and safety procedures (including but not limited to handling and disposing hazardous material, personal safety, evacuation procedures, safety plans)
- 35 Disease control and prevention techniques (including but not limited to vaccination, wellness care, herd health)
- 36 Facility cleaning and disinfection techniques
- 37 Diagnostic imaging equipment and procedures (excluding dental imaging)
- 38 Quality assurance and safety for diagnostic imaging
- 39 Pre- and post-anesthetic assessment and care
- 40 Anesthetic induction, maintenance, monitoring, and recovery techniques including stages of anesthesia, and troubleshooting
- 41 Pre-anesthetic, anesthetic, and analgesic medications
- 42 Pain assessment and analgesic administration techniques
- 43 Procedures for care, maintenance, and use of diagnostic, therapeutic, surgical, and anesthetic equipment and supplies
- 44 Professional ethics (including but not limited to Veterinary Technician Code of Ethics)
- 45 Techniques for communicating with the veterinary medical team and client
- 46 Inventory control
- 47 Record keeping