

**TSRI Annual Comparative Medicine Review**  
**ACLAM Mock Practical Examination**  
**10 June 2005**

All of the following multiple choice and short answer questions have only *one* correct answer. *Do not* use acronyms as part of your answer unless specifically directed to do so.

- **Etiology, etiologic agent, cause or causative agent:** Indicate only the agent (Mycobacterium tuberculosis or trauma).
- **Etiologic diagnosis:** Indicate the causative agent *and* the site of the lesion (esophageal candidiasis).
- **Morphological diagnosis:** Indicate the organ, the process and the distribution, if indicated (diffuse ulcerative colitis or uterine adenocarcinoma).
- **Disease:** Indicate the common name for the condition (measles or slobbers).



**Question 1:** What is the name of the piece of equipment shown in this slide?

- a) Radial arm maze
- b) Rodent algometry tank
- c) Morris water maze
- d) Acoustic startle tank
- e) Operant Conditioning maze

**Question 2:** What does this piece of equipment measure?

- a) Learning and memory
- b) Learning only
- c) Memory only
- d) Motor coordination
- e) Anxiety

**Question 3:** What is the *Genus* and *species* name of the non-traditional laboratory rodent shown in this slide?

- a) Sigmodon hispidus
- b) Oryzomys palustris
- c) Cynomys ludovicianus
- d) Octodon degus
- e) Dipodomys spectabilis

**Question 4:** To what Family does this animal belong?

- a) Rodentia
- b) Octodontidae
- c) Lagomorpha
- d) Muridae
- e) Sciuridae

**Question 5:** This slide depicts a commonly used tool that was recently reported for canine health assessment. What is the name of this tool?

- a) Tumor condition scoring
- b) Body condition scoring
- c) Body weight management scoring
- d) Total surface area scoring
- e) Obesity scoring system

**Question 6:** According to a recent article, what percentage of blood volume, taken once a week for four consecutive weeks, was found to be acceptable in this species?

- a) 2%
- b) 2.5%
- c) 5%
- d) 10%
- e) 15%

**Question 7:** What is the disease condition being depicted in this slide?

- a) Ocular melanoma
- b) Ocular hemangiosarcoma
- c) Ocular abscess
- d) Ocular epithelioma
- e) Ocular leiomyosarcoma

**Question 8:** What is the name of the piece of equipment shown in this slide?

- a) Tail Suspension apparatus
- b) Rodent algometry box
- c) Morris water maze
- d) Acoustic startle box
- e) Operant Conditioning box

**Question 9:** What does this piece of equipment measure?

- a) Learning and memory
- b) Sensorimotor learning
- c) Memory only
- d) Motor coordination
- e) Anxiety

**Question 10:** What is the Genus and species of this NHP?

- a) *Macaca fascicularis*
- b) *Macaca mulata*
- c) *Erythrocebus patas*
- d) *Chlorocebus patas*
- e) *Cercocebus patas*

**Question 11:** To what taxonomical *sub order* does this animal belong?

- a) Catarrhini
- b) Anthropoidea
- c) Cercopithecoidea
- d) Cercopithecidae
- e) Cercopithecinae

**Question 12:** According to the AVMA Panel on Euthanasia (2000), which of the following is listed as a *conditionally acceptable* method for euthanasia of this species?

- a) Barbiturates
- b) CO<sub>2</sub>
- c) Penetrating captive bolt
- d) Thoracic compression
- e) Gunshot

**Question 13:** According to the Guide for the Care and Use of Laboratory Animals, what must the interior height of the primary enclosure for this species be?

- a) 4 inches
- b) 5 inches
- c) 6 inches
- d) 7 inches
- e) No requirement

**Question 14:** According to the Animal Welfare Act, what must the interior height of the primary enclosure for this species be?

- a) 4 inches
- b) 5 inches
- c) 6 inches
- d) 7 inches
- e) No requirement

**Question 15:** A recent journal article suggests utilizing this piece of equipment in rodent procedures. What is this piece of equipment called?

- a) Circulating water blanket
- b) Infra- red heat emitter
- c) Forced-air warming system
- d) Inhalant anesthetic scavenging unit
- e) Ice cooling unit

**Question 16:** According to the *Occupational Health and Safety in the Care and Use of Research Animals*, exceeding what bBA level requires employees to participate in a hearing-conservation program?

- a) 80 dBA
- b) 85 dBA
- c) 90 dBA
- d) 95 dBA
- e) no requirement

**Question 17:** What is the average daily water intake for the animal shown here?

- a) 5 gm/day
- b) 10 gm/day
- c) 12 mls/day
- d) 10 mls/day
- e) 6-7 mls/day

**Question 18:** According to a recent journal article, which of the following agents should be considered in a spontaneous outbreak of septicemia in immunodeficient mice?

- a) *Aerococcus viridans*
- b) *Pseudomonas gladioli*
- c) *Aerococcus pneumonia*
- d) *Pneumocystis carinii*
- e) *Escherichia coli*

**Question 19:** What is the name of the piece of equipment shown in this slide?

- a) Tail Suspension apparatus
- b) Rodent algiesometry tank
- c) Morris water maze
- d) Acoustic startle tank
- e) Operant Conditioning maze

**Question 20:** What is this piece of equipment used to study?

- a) Tail suspension
- b) Operant conditioning
- c) Forced swimming
- d) Acoustic startle
- e) Analgesimetry

**Question 21:** What is the Genus and species of this NHP?

- a) *Macaca fascicularis*
- b) *Macaca mulata*
- c) *Erythrocebus patas*
- d) *Chlorocebus patas*
- e) *Cercocebus patas*

**Question 22:** Which of the following statements is *true* regarding the human/animal condition that is being depicted in the dog in this slide?

- a) Males are affected more than females
- b) Females are affected more than males
- c) There is no variation with ethnicity
- d) The inheritance pattern is autosomal dominant
- e) German Shepard dogs are at a high risk

**Question 23:** This slide further depicts the dog shown in question 22. What diagnostic modality is being represented here?

- a) Radiography
- b) Xeroradiography
- c) Computed tomography
- d) Positive Emission Tomography
- e) Magnetic resonance imaging

**Question 24:** What is the name of this organ, depicted by the black arrow, found in a ball python?

- a) Liver
- b) Lung
- c) Kidney
- d) Spleen
- e) Heart

**Question 25:** These two slides were taken from a wild-caught northern leopard frog. What is the most likely etiologic agent?

- a) Haematoloechus sp.
- b) Hemobartenella sp.
- c) Hymanolepus sp.
- d) Helicobacter sp.
- e) Histoplasmosis sp.

**Question 26:** What is the genus and species name of the wild-caught northern leopard frog?

- a) Rana rana
- b) Xenopus laevis
- c) Bufo Bufo
- d) Bufo Marinus
- e) Rana pipiens

**Question 27:** What anesthetic agent is responsible for the condition of this rat's liver?

- a) Telazol
- b) Isoflurane
- c) Tribromoethanol
- d) Xylazine
- e) Atipamazole

**Question 28:** A recent journal article presented this entire piece of equipment for use in rodent procedures. What is the name of this entire piece of equipment?

- a) Activity monitor
- b) Infra- red heat emitter
- c) Forced-air warming system
- d) Inhalant anesthetic scavenging unit
- e) Ventilator

**Question 29:** In what year did this organization form?

- a) 1965
- b) 1966
- c) 1967
- d) 1957
- e) 1950

**Question 30:** In what year did this organization form?

- a) 1965
- b) 1966
- c) 1967
- d) 1957
- e) 1950

**Question 31:** What is the name of the piece of equipment shown in this slide?

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**Question 32:** Describe the coat color being demonstrated in the mouse in this slide?

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**Question 33:** What is the full name of the acronym shown in this slide?

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**Question 34:** What is the name of the parent organization that provides this certification?

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**Question 35:** Name the device that is being demonstrated by the arrow in this slide?

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**Question 36:** In what species has the use of this device been recently reported?

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**Question 37:** Describe the piece of equipment shown in the center of this slide?

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**Question 38:** What is this piece of equipment commonly been used for?

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**Question 39:** What test is being performed with this piece of equipment?

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**Question 40:** What this picture is demonstrating?

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**Question 41:** The following slide was taken from the liver of an A/J mouse. The inset picture depicts the same tissue stained with Warthin-Starry stain. What is the *morphological diagnosis*?

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**Question 42:** Upon further investigation of the same A/J mouse from question 41, this was found. What is the etiologic agent?

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**Question 43:** This electronic tool was presented in a recent journal article. What is this called?

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**Question 44:** What is the human disease that this electronic tool was created to study?

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**Question 45:** This slide was taken of a Lewis rat. Name the disease?

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**Question 46:** What rodent virus was recently reported to be associated with this disease condition?

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**Question 47a &b:** These slides were taken from an African green monkey following an acute episode of weakness, depression, and anorexia. What is the morphologic diagnosis?

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**Question 48:** This slide is showing hepatomegaly of the common marmoset. What is the most common cause of this condition in older marmosets?

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**Question 49:** This slide depicts a common condition found in marmosets. What is the morphologic diagnosis?

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**Question 50:** This slide depicts a positive tuberculosis reaction. What is the grade?

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**YOU DID IT!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!**