

Name: _____

Date: _____

Quiz for Module 2: Gas Anesthesia

This section must be completed by all researchers who will use gas anesthesia in their work

- _____ 1. You are planning to use gas anesthesia for surgery on arctic ground squirrels ranging in size from 0.7 – 0.8 kg. Since they are all larger than 0.7kg, you can use a rebreathing anesthetic system instead of a non-rebreathing system.
 - a. True
 - b. False

- _____ 2. Gas anesthesia must be done using medical grade compressed oxygen only, not compressed air. Oxygen toxicity is not an issue since even long anesthetic bouts are too short to encounter this problem.
 - a. True
 - b. False

- _____ 3. Halothane and isoflurane are very similar anesthetic agents and can be used interchangeably in the same vaporizer
 - a. True
 - b. False

- _____ 4. While using a closed or semi-closed circuit you should not use the oxygen flush valve to expand the rebreath bag when it is low unless you wish to lighten the anesthetic depth because the oxygen flush valve bypasses the vaporizer thus adding pure oxygen to the system
 - a. True
 - b. False

- _____ 5. The size of the rebreath bag used will depend upon the size of the animal irrespective of whether you are using a rebreath or non-rebreath system
 - a. True
 - b. False

- _____ 6. During the pre-anesthesia check out you see that the sodalyme in the CO₂ absorber canister is the proper color (white and pink). Since depletion of the granules is indicated by a blue color change the sodalyme is clearly all right to use.
 - a. True
 - b. False

- _____ 7. You need to ship 2 bottles of isoflurane and a portable anesthetic machine by aeroplane to Barrow so that you can anesthetize lemmings. Prior to obtaining the drugs and shipping them, you need to:
- Have an approved IACUC protocol to obtain the drugs
 - Have all the necessary permits to capture the lemmings in the proposed area
 - Have checked the regulations for transporting oxygen tanks by air
 - Have checked the regulations for transporting isoflurane by air
 - All of the above
- _____ 8. In gas anesthesia jargon, dead space refers to
- The space between the animal and the anesthetic circuit
 - The space including the mask or the portion of the Endotracheal tube that is situated outside the animal
 - The space including the mask or the entire Endotracheal tube
 - A and B only
 - A and C only
- _____ 9. The compressed oxygen tank must
- Be of medical grade only
 - Have an oxygen regulator attached to it (no other type acceptable)
 - Be opened by turning the regulator valve clockwise until completely open, and then backing off $\frac{1}{4}$ turn
 - All of the above
 - A and C only
- _____ 10. There are a few critical items you must check prior to using a gas anesthetic machine on an animal. These include
- Ensure that the O₂ tank is open and full enough for the procedures
 - Top off the vaporizer with the correct anesthetic agent
 - Ensure that the tubing is in good condition and properly connected
 - Ensure that the anesthetic gas scavenging system is in place and operating
 - All of the above