2004 California Envirothon Wildlife Test 100 Points Suggested Time To Complete This Test - 35 Minutes

Please write your team number on the top of each page. You may unstaple the test and work on the questions in any order; however, pages should be returned to the correct order when the test is turned in. You may chose to split your team and work on several questions at once or work on them together. Please show all work or thought processes, as you may receive partial credit.

| 1. | Skull | and | Feeding | Habits | Identification: |
|----|-------|-----|---------|---------------|------------------------|
| | | | | | |

A) Identify the skulls on the table numbered 1 - 5 using the names in the list below. Write the number of the skull, the animal's name, and whether that animal is an herbivore, carnivore, or omnivore. (20 points)

| Black Bear | Badger | Mule Deer |
|--------------------|-----------------|---------------------------------------|
| Raccoon | Pocket Gopher | Striped Skunk |
| Opossum | Ground Squirrel | Grey Fox |
| Long-tailed Weasel | Bobcat | Coyote |
| Harbor Seal | Mountain Lion | |
| Skull Number | Animal Name | Carnivore/Herbivore/Omnivore? |
| a) | | |
| b) | | |
| c) | | |
| d) | | |
| e) | | |
| | | |
| | | |
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Write the number of the skull, the animal's name, and whether that animal is a granivore, insectivore, piscivore, or carnivore. (12 points) Great Blue Heron Long-billed Curlew Western Sandpiper Mallard Brown Pelican Pigeon Hawk Cliff Swallow House Finch Typical Feeding Mode (granivore, Bird Name Skull Number insectivore, piscivore, or carnivore) a) _____ ____ 2. What are the items labeled 9 and 10? What type of animals did they come from and why were they cast? (6 points) 3. Draw a diagram of a food web showing at least 4 trophic (feeding) levels, labeling producers, decomposers, primary and other consumer levels, and which are herbivores, carnivores, etc. incorporating but not limited to the following organisms: fungi, earthworms, termites, vultures, foxes, mice, rabbits, pines, doves, snakes, cougar, grasses, deer, owls, and squirrels. Use arrows to show the associations among the organisms at one trophic level and the next. (10 points) (Reference: http://www.planetpals.com/foodchain.html#chart) Team Number: _____ 2004 CA Envirothon, Wildlife Test, Page 3.

B) Identify the skulls on the table numbered 6 - 8 using the names in the list below.

| 4. How well do you know California birds? (7 points) | Which category best fits the following birds? |
|---|---|
| a. Canada Goose | Song Bird |
| b. Western Sandpiper | Introduced Species |
| c. Golden Eagle | Long-legged Wader |
| d. Yellow-rumped Warbler | Waterfowl |
| e. Great Egret | Shorebird |
| f. Starling | Primary Cavity Nester |
| g. Acorn Woodpecker | Raptor |
| and carrying capacity for wildlife. Why wor valuable to wildlife than others? Incorporate into your answer: habitat diversity, invasive connectivity, and wildlife corridors. (10 points) | species, edge effects, habitat fragmentation, |
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| | ere recently hit by devastating wildfires. Many hat the potential effects of such an event would |
|--|--|
| be. | mat the potential effects of such all event would |
| | ed to the extreme risk of a huge forest fire in |
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| (b) Describe three measures to reduce such | n fire risk. (2 points) |
| 1 | |
| 2 | |
| (c) Name two of the potential negative effects (4 points) | ects of thousands of acres burning and how to |
| 1 | |
| 2 | |
| 7. How well do you know southern Califor between the mammals and traits listed below | rnia mammals? Make the best match you can ow. (7 points) |
| a. Badger | Fossorial |
| b. Southern Sea Otter | Uses Sonar |
| c. Pocket Gopher | In the Weasel Family |
| d. CA Gray Whale | Relative of the Raccoon |
| e. Ringtail | Impressive Digging Claws |
| f. Desert Kangaroo Rat | Extirpated from CA Wildlands |
| g. Grizzly Bear Team Number | Drinks No Water 2004 Envirothon, Wildlife Test, Page 5. |

| 8. List two reasons that bats are considered beneficial and two common myths about them. (4 points) |
|---|
| 9. Southern California has a variety of habitats that have developed in response to differences in soil type, exposure, slope, and many other factors but particularly the local abundance and availability of water. The availability of water to plants is a primary factor in determining the vegetational community able to persist on a particular piece of open space. Rank the following 7 plant communities from wettest to driest, 1 indicating the most mesic, to 7 indicating the most xeric. (7 points) |
| a Riparian Woodland b Oak Woodland c Coastal Salt Marsh d Creosote Bush Scrub e Chaparral f Coastal Sage Scrub g Fresh Water Marsh |
| 10.0 d |

10. Southern California has more than 100 species on the endangered species list. Name one species, its status (endangered or threatened), its habitat, why it was listed, and whether its population is recovering, stable, declining, or gone. (7 points)

(Reference: http://species.fws.gov; http://dfg.ca.gov)