

CAPTAINS TRYOUTS 2018 ECOLOGY KEY (WVHS)

- 1) B
- 2) A
- 3) C
- 4) C
- 5) D
- 6) B
- 7) A
- 8) C
- 9) D
- 10) A
- 11) C
- 12) B
- 13) C
- 14) A
- 15) C
- 16) B
- 17) D
- 18) B
- 19) C
- 20) D

1. A is better equipped for desert conditions. (1 point)
 - a. Optional reasonings (1 point per reason, 2 total)
 - i. Spines protect from animal interference
 - ii. Leaves are able to store water
 - iii. Fewer leaves = less evaporation
 - iv. No annual loss and growth of leaves, less energy required

1. Total - 3 points

2. Optional reasons (1 point per reason, 2 total)
 - a. Large ears - cool blood and lower body temp
 - b. Large ears - effective hearing against predators in the desert
 - c. Large legs - efficient movement through sand
 - d. Small size - easy to hide and find shelter

i. Total - 2 points

3. Food web (1 point per organism with correct consumption, 5 total)
 - a. Grass on bottom
 - b. Beetles consume grass
 - c. Zebra consumes grass
 - d. Fox consumes BOTH beetle and grass
 - e. Lion consumes BOTH fox and zebra

i. Total - 5 points

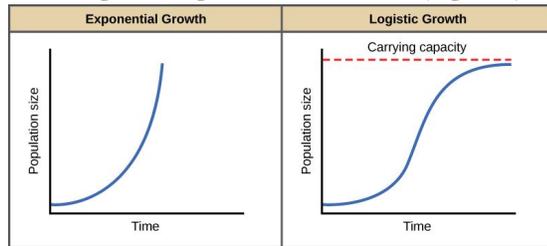
4. Correct answer - 14 years (1 point)
a. WORK SHOWN (1 point)

i. Total - 2 points

5. Definition - a species upon which multiple ecosystem species depend upon (1 point)
a. Characteristics - provide food for others, provide shelter, provide indication of a failing ecosystem (first to be harmed) (1 point)
b. Examples - bison, kelp, otters, sea stars, beavers, elephants, hummingbirds (there are others). (1 point for any viable example)

i. Total - 3 points

6. R example - prairie dog, any insect, mice, etc. (1 point)
a. K example - elephants, lions, etc. (1 point)



- b. (a) (b)
c. Correct r selected species graph (1 point)
d. Correct k selected species graph (1 point)

i. Total - 4 points