



Towheed Iranian School
(International Section)
First Term, Final Exams, 2015-2016

Mark

20

Subject: LIFE SCIENCE

Date: 14/12/2015

Name: _____ Grade: Seven, Section: A D

Exam time: 60 min

A: Choose the best answer :(5)

1) During what process is rock slowly transformed into soil?

- a. photosynthesis
- b. nitrogen fixation
- c. primary succession
- d. secondary succession

2) Which of the following can cause nitrogen fixation?

- a. combustion
- b. forest fire
- c. fossil fuels
- d. lightning

3) Which would most likely be a pioneer species?

- a. conifers
- b. lichens
- c. crab grass
- d. hardwoods

4) Which process does NOT release carbon dioxide into the environment?

- a. combustion
- b. respiration
- c. photosynthesis
- d. decomposition

5) What do all organic molecules contain?

- a. oxygen
- b. nitrogen
- c. water
- d. carbon

6) Why do living things need nitrogen?

- a. to build new cells
- b. to cool them off
- c. to get rid of wastes
- d. to carry nutrients

7) Birds that eat other vertebrates and have good night vision, sharp claws, and a curved beak, are

- a. water birds.
- b. birds of prey.
- c. perching birds.
- d. flightless birds.

8) Which of the following placental mammals has opposable thumbs, forward-facing eyes, and a large brain?

- a. cetaceans
- b. insectivores
- c. carnivores
- d. primates

9) To what organ does the placenta attach the young ?

- a. gestation
- b. embryo
- c. uterus
- d. diaphragm

10) Monotremes include the echidna and the

- a. marsupial.
- b. blue-footed booby.
- c. pinniped.
- d. platypus.

B :Write the correct number against the words given to match .(2.5)

___ respiration

11) a mammal that lays eggs

___ marsupial

12) a mammal with a pouch, such as a kangaroo, koala, or opossum

___ gestation period

13) the time between fertilization and birth, in mammals

___ photosynthesis

14) process that is the basis of the carbon cycle

___ precipitation

15) replacement of one type of community by another over time

___ monotremes

___ succession

C: Math skill : (1.5)

16) Cecilia's kitten weighed 2 lb when she got him. The kitten gained about 0.5 lb each month for the next 11 months. How much did the kitten weigh at the end of the 11 months?

D:Use the terms from the following list to complete the sentences below.(5)

combustion	evaporation	succession	decomposition	photosynthesis	
condensation	respiration	precipitation	brooding	preening	
precocial	altricial	placenta	diaphragm	endotherms	mammary glands

- 17) Earth's supply of fresh water is renewed by_____.
- 18) Lichens are important early contributors to_____
- 19) Carbon is returned to the environment when sugar molecules are broken down during the process of_____.
- 20) The carbon in coal, oil, and natural gas is returned to the atmosphere during _____.
- 21). Water helps regulate body temperature through perspiration and _____.
- 22) When birds groom and maintain their feathers, they are_____
- 23) A mammal's _____ is a large muscle that helps it draw air into its lungs.
- 24) Mammals are the only animals that use _____ to feed their young.
- 25) The first mammals were_____, which allowed them to hunt by night and avoid dinosaurs by day.
- 26) Young birds that learn to feed themselves and walk shortly after hatching are called _____.

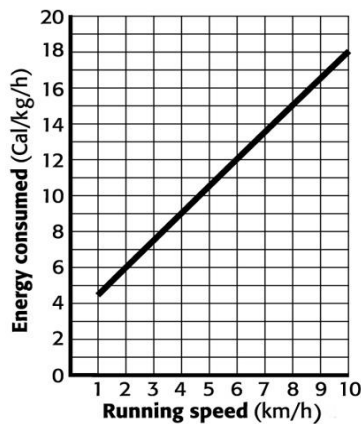
E: Answer to the following questions :(4)

27)What are the differences in the ways placental mammals, monotremes, and marsupials give birth to their young?

28) describe the role of bacteria in nitrogen cycle?

F:The graph below shows how many Calories a small dog uses while running at different speeds. Use this graph to answer the questions that follow. (2)

Calories Used by a Running Dog



29) As the dog runs faster, how does the amount of energy it consumes per hour change?

- A. The energy consumed increases.
- B. The energy consumed decreases.
- C. The energy consumed remains the same.
- D. Changes in the energy consumed are not related to changes in the dog's speed

30) How much energy per hour will this dog consume if it is running at 9km/h?

- A .4 Cal/kg/h B .16 Cal/kg/h C. 16.5 Cal/kg/h D .18 Cal/kg/h