

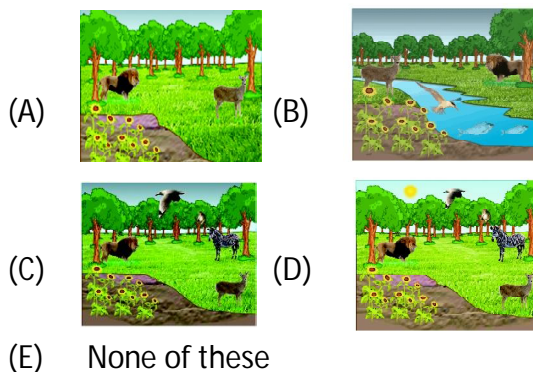
Global Science Olympiad

CLASS 5th SYLLABUS & SAMPLE QUESTIONS

The World of Microorganisms, The Plant Kingdom, The Animal Kingdom, Human Body, Matter, Work, Force and Energy, Rocks and Soil, Our Environment, Our Universe
General and Applied Science.

The Actual Question Paper Contains 47 Questions. The Duration of the Test Paper is 67 Minutes.

1. Which one of the following ecosystems shows the ultimate source of energy for all biotic factors in an ecosystem?



- (E) None of these
2. There are two plants, one plant is illuminated with green light and other plant of similar size and leaf area is illuminated with blue light, as shown in the following figures:

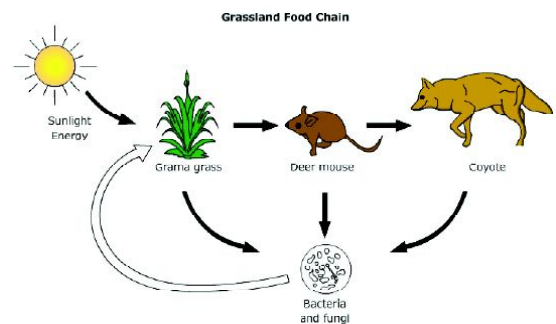


If all other conditions are identical, how the rate of photosynthesis will be affected in both plants?

- (A) The plant under the blue light will have greater rate of photosynthesis than the one under the green light.

- (B) The plant under the green light will have greater rate of photosynthesis than the one under the blue light.
- (C) Photosynthesis will occur at the same rate in both plants.
- (D) Neither plant will carry on photosynthesis.
- (E) None of these

3. Given below is a grassland food chain:



Which of the following organisms are producers and decomposers?

- (A) Deer mouse is producer and bacteria and fungi are decomposers.
- (B) Grama grass is producer and Deer mouse is decomposer.
- (C) Grama grass is producer and Bacteria and Fungi are decomposers.
- (D) There are no producers, only consumers are in the food chain and Deer mouse is decomposer
- (E) None of these



4. A toy car is moving on the floor. What is the force in Newton that the car exerts on the floor?

Acceleration = 60m/s^2



Mass = 2000gm

- (A) 100 N (B) 120 N
 (C) 6000 N (D) 120000 N
 (E) None of these

5. What will be the effect of the following:



- (A) It will result in drier climate
 (B) It will result in moist climate
 (C) Increase in underground water
 (D) Prevent soil erosion
 (E) None of these

6. During the extreme cold condition, you may have seen the people shivering due to cold

What happens during shivering?

- (A) Muscles attached to hair contract, pulling tiny hair upright.
 (B) The arterioles that lead to the skin capillaries constrict that reduces flow of blood and cut down the amount of heat lost by skin.
 (C) Muscles contract and relax rapidly there by giving out 4-5 times more heat than when the body is at rest.
 (D) Body secretes adrenaline hormones
 (E) None of these

7. On the Earth when we jump from a height we fall down but in space we float. What factor is responsible for this?

- (A) Force of friction
 (B) The Earth
 (C) Force of gravitation
 (D) Tension force
 (E) None of these

8. Rabi and kharif crops are the major crops of India. Here is a list of crops. Categorized them as rabi and kharif.

Wheat, millet, paddy, barley, peas, sugarcane

- (A) **Rabi crops:** Wheat, barley, millet.
Kharif crops: Paddy, sugarcane, peas
 (B) **Rabi crops:** Wheat, barley, peas.
Kharif crops: Paddy, sugarcane, millet
 (C) **Rabi crops:** Wheat, millet.
Kharif crops: Paddy, sugarcane, barley, peas
 (D) **Rabi crops:** Wheat, barley, millet, sugarcane
Kharif crops: Paddy, peas
 (E) None of these

9. Weight of a person reduces to one sixth on the moon than the earth. What changes you will notice in the mass of a person on the moon than the earth?

- (A) The mass of a person reduces to one sixth on the moon like weight.
 (B) The mass of a person reduces to half on the moon.
 (C) The mass of a person reduces to one fourth on the moon
 (D) The mass of a person remains unchanged on the moon
 (E) None of these

10. A farmer throws cow dung in the field to increase its fertility. After few days he finds that the cow dung has completely vanished from the field. How does it happen?



- (A) Cow dung mixes with the soil due to action of soil
- (B) Cow dung mixes with the soil due to action of water
- (C) Cow dung mixes with the soil due to action of decomposers
- (D) Cow dung mixes with the soil due to temperature
- (E) None of these

11. Categorized them as conventional and unconventional energy.

Petrol, wind energy, coal, diesel, solar energy, tidal energy, hydroelectricity

- (A) Conventional: Wind energy, solar energy, tidal energy. Unconventional: Petrol, diesel, coal, hydroelectricity
- (B) Conventional: Wind energy, solar energy, tidal energy, hydroelectricity. Unconventional: Petrol, diesel, coal,
- (C) Conventional: Petrol, diesel, coal, hydroelectricity. Unconventional: Wind energy, solar energy, tidal energy
- (D) Conventional: Petrol, diesel, coal. Unconventional: Wind energy, solar energy, tidal energy, hydroelectricity
- (E) None of these

12. What do you mean by habitat?

- (A) Natural living place of an organism
- (B) The surroundings
- (C) The entire ecosystem
- (D) The environment
- (E) None of these

13. During the interval in a football match, players are given energy drinks. The purpose of providing these drinks is to energize the players. How does the drink provide energy to player's body?

- (A) By converting chemical energy to mechanical energy and heat energy.
- (B) By converting potential energy to chemical energy and heat energy.
- (C) By converting heat energy to chemical energy and mechanical energy.
- (D) By converting chemical energy to mechanical energy and light energy.
- (E) None of these

14. You must have noticed that different types of food have different types of colour. For example mango is yellow and apple is red

They get the same sunlight then why their colours are different?

- (A) Because it is a natural process
- (B) Because sunlight has many colours
- (C) Because of the absorption of light
- (D) Because of the wavelength of light that they reflect
- (E) None of these

15. Tears play an important role in the protection of eyes. How?

- (A) Tears show our emotions and thus make us feel relax.
- (B) Tears clear our vision
- (C) Tears moisten the eyes and thus remove dust and dirt from our eyes
- (D) All of these
- (E) None of these

ANSWERS

1. (D) 2. (B) 3. (C) 4. (B) 5. (A) 6. (C) 7. (C) 8. (B)
 9. (D) 10. (C) 11. (D) 12. (A) 13. (A) 14. (D) 15. (C)