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Ecology interactions within the environment answers pdf answers key online

conditions. Biotic factors are those factors that once lived or live today. Cite includes past and present plants and vegetable materials, animals and microorganisms. There are different levels of ecological organization between a single organism and the biosphere of the earth. List and describe the levels between the two mentioned here. [6 brands] population: individuals of the same species that live in the same space and time and reproduce each other form a population. Community: different populations of different species in the same area at the same time form a community. Ecosystem: all the communities within the largest area that interact they are interdependent on each other and the factors within the area. Discuss the different types of interaction that exists between species. [9 marks] Competition: when organisms from different species compete for the same limited resource Feeding relationships: there are many different types of feeding relationships between different organisms in an ecosystem, such as herbivory, predation, scavenging. Symbiosis: when two (or more) organisms' actions have a positive, negative or neutral effect on other organisms from a different. The way in which they interact and the influence this has on the other species leads us to identify mutualism parasitism commensalism Explain what the different trophic levels represent in an ecosystem and why we can represent the levels as a pyramid with the bottom layer being the largest. [8 marks] Producers: are organisms / plants that are able to produce their own energy from sunlight, water and carbon dioxide and do not need to consume other organisms to get energy. Primary Consumers: need to consume plants in order to get energy. Secondary Consumers: need to consume primary consumers to get energy. Tertiary Consumers: consumers secondary consumers to get energy. The trophic levels can be represented as a pyramid as there needs to be more organisms in the bottom layer than in the layer above it. This is because only about \(\text{10}\)% of the energy in each trophic level is available to the next level. The rest is used by the organisms for their own processes. Evaluate this statement: An insectivore is a carnivore.' [2 marks] An insectivore eats insects and small invertebrates and is therefore a carnivore, as it eats other animals, thus the statement is correct because carnivores get their energy from eating other animals and not plants. Identify the following in this food web. [7 marks] Producers: Primary consumers: Secondary consumers: Scavengers: Decomposers: trees, shrubs, grasses zebra, elephant, termites cheetah, hyena vultures, hyenas bacteria, fungi There are more that ghepari in this balanced ecosystem. Explained because it's like that. [3 Mark] The zebras are primary consumers and use about the \(\text{90}\)% of the energy they receive from the grass, transferring about the \(\text{10}\)% to the cheetah to be consumed. Therefore, more zebra is needed that Ghepardo to make sure that the cheetahs are supported in terms of food supply, and also that they do not eat all the zebra so that the population of Zebra does not extinguish. Describe the work done by the producers in this ecosystem. [2 brands] manufacturers capture energy from sunlight and convert it into potential chemical energy in the form of glucose through the photosynthesis process. In this way they enter into the ecosystem energy that animals cannot do. Based on this image, evaluate how active the decomposers are in this environment. [2 brands] Descents should be able to identify the lack of carcasses and letters of dead animals, which indicates that the decomposers are working efficiently. What do you think it would happen to this ecosystem if the whole zebra died? [2 brands] If all the zebras died, the ecosystem would be unbalanced. First, the ghepari would not have a source of food and in turn would suffer and starve. The hyena would also have an impoverished source of food. Perhaps there could be less manure for the steering scarabeo to be used to lay eggs. The grazing of the zebra also has an effect on plants and therefore if the zebra extinguishes, the growth of the grass increases. What do you think it would happen to this ecosystem in the short and long term if a large fire flare up and burned most of the grass and some trees? [2 brands] In the short term, many of the animals would beat because the zebra and the elephant would have a reduced food source, in particular the zebra that eats the grass. Some of them could die. This in turn the other predators. Many more small organisms would have burned. However, in the long term, term, will normally be restored as the landscape recovers and the plants start to grow again after the first rains. The following food web shows the feeding relationships between organisms in another savanna ecosystem. Use this food web to write down three food chains. [6 marks] There are multiple food chains here. Some examples are: tree \(\rightarrow\) tree \(\rightarrow\) shrub \(\rightarrow\) grass \(\rightarrow\) grass \(\rightarrow\) Organism Adaptations A leopard. The leopard is camouflaged due its colouring and spots. This helps it to hide away from prey so that it can get as close as possible before chasing. The leopard is adapted to run fast over short periods in order to catch its prey. It has a light, streamlined body with strong legs. It has a tail for balance to turn sharp corners while chasing. A whale. The whale is a mammal so it does not have gills, but it can hold its breath for a long time underwater so that is can dive down and also catch prey/filter feed. It has a blowhole on top of its head for breathing. The blubber keeps it warm as it insulates it and also provides energy when diving and swimming in very cold seas. It has a strong tail, stream lined body and its forelimbs are flippers for swimming. A Venus Flytrap. This plant has adapted as it is carnivorous. It catches flies and has adapted to digest them. The red colouring inside the 'catchers' attracts the flies as it looks like meat. As soon as the flies land on the surface, the plant is triggered and the catchers clamp shut, catching the fly. The catchers are adapted with the spikes on the end to form a cage around the fly and keep it there while it is digested. The plant can also photosynthesise as it is green and contains chlorophyll A dung Ewage me to live on the rapalu't saluti lat snudiates sabil yobrames sabileobates, Quadobates, Quadobates, See Repord that Feid embint Deshone Neo Name) Heal smediate .. M , lame is a tradberberbb. At ame ajinite shedent. On addition, true as true as the sanctom of sancloo is the salmbalobsan lames in the most common mberme, scientificate mberk tabbeclamez yumade. Anttttt Ral Fefee Wibit He SWert Subraszad .. M AN , DAMAM AN AN ANAM AN AN AN hmlame , habado hkade hkadek. Pawe Stif Stif Stal Kalf Heal Sffer Mal Geine sabeo , sambmeme sable yabile yabbeclamezer supbatly tabiltubates. Slek . Ahellator Platu It In LAt Malie salrr salrrm Hass Debate , scilame . Yyy ynals Depate Plaket Phonuclas Lem , Question QuBO Y.. .www/// Plreth become extinct? "Write 3 - 4 phrases to explain to them because we have to worry about biodiversity in our country. [6 brands] students must show the following: recognition of the importance of evaluating each species and their niche species in them the recognition of the ecosystem that each species fills a specific place in the food chain and if you are removed, all the other species in that food / web / pyramid chain. Each organisms must be protected to preserve the entire ecosystem the importance of preserving our diversity for the 'Ecotourism and for future generations to be enjoyed (we have not inherited the land by our parents, we are custodians of the earth for our children! Total [84 brands] trademarks

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