Print Version of Braille Paper

Time 1 Hour 15 Minutes

Instructions to Candidates

Write your name, centre number and candidate number on the answer paper.

There are three (3) questions in this paper.

Answer all questions.

Write your answers on the answer paper provided.

Information for Candidates

The number of marks is given in brackets [ ] at the end of each question or part question.

Cell phones are not allowed in the examination room.
1 A potted plant was destarched by leaving it in the dark cupboard for three days. After which a leaf was detached and dipped in boiling water for one minute.  
   (a) (i) Why was the leaf dipped in boiling water? [2]  
   (ii) The leaf was then dipped in boiling alcohol in a beaker using a water bath for three minutes. State what happened to the leaf after three minutes. [1]  
   (iii) State the texture of the leaf after putting it in boiling alcohol for a minute. [1]  
   (iv) The leaf was spread on a white tile and three drops of iodine solution were added to the leaf. The experiment was left to stand for a few minutes. State what happened to the leaf. [1]  
   (b) Name the chemical that was used to test for the nutrient present. [1]  
   (c) Why was the nutrient absent in the leaf? [2]  
   (d) Why was the water bath used to boil the leaf in alcohol? [1]  
   (e) State three external adaptive features of the leaf that enable it to photosynthesize. [3]  

[Total: 12 marks]

2 In a given ecosystem, students on a field trip observed the following living and non-living things: rats, snakes, birds, trees, grass, stream, rocks and fish.  
   (a) From the list above, identify two:  
      (i) biotic factors. [2]  
      (ii) abiotic factors. [2]  
   (b) Construct a food chain consisting of three trophic levels from the list above. [3]  
   (c) State the habitat of the fish in the given ecosystem. [1]  
   (d) What would be the effect in your constructed food chain above if the primary consumers were removed? [2]  
   (e) What is the ultimate source of energy in the ecosystem? [1]  
   (f) What term is used to describe the role of an organism in the ecosystem? [1]  
   (g) State the adverse effects of cutting down trees in the ecosystem. [3]  

[Total: 15 marks]

3 A man who is heterozygous for blood group B married a woman whose blood group is AB.  
   (a) State the possible blood group genotypes of  
      (i) the man. [2]  
      (ii) the woman.  
   (b) Which blood group is called a  
      (i) universal donor?  
         Give a reason. [2]  
      (ii) universal recipient?  
         Give a reason. [2]  
   (c) The sex of an individual is determined at fertilization. Outline all the steps in the determination of the sex of a human being using genetic symbols. [7]  

[Total: 13 marks]
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