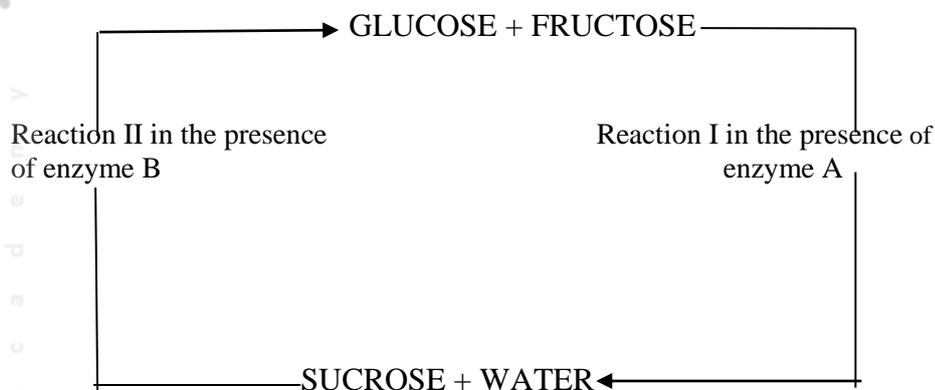


# FORM 1 HOLLIDAY ASSIGNMENT

## 1. 1989 Q1 P1

The diagram below shows chemical reactions I, and II which are controlled by enzymes respectively.



Name reaction II and enzyme B

## 4. 1991 Q9 P1

In an investigation, the pancreatic duct of a mammal was blocked. It was found that the blood sugar regulation remained normal while food digestion was impaired. Explain these observations.

## 5. 1992 Q1 P1

(a) Name the products of light reaction in photosynthesis.

(b) Explain why insectivorous plants such as *Drosera* species trap and digest insects

## 6. 1992 Q12 P1

a) (i) Identify the mode of feeding of the animal whose dental formula is given below

I 0	C 0	pm 3	m 2
2	0	3	2

(ii) Give reasons for your answer in (a) (i) above

## 16. 1997 Q20 P1

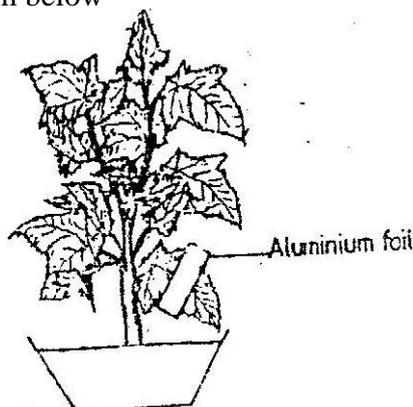
(a) What is meant by the term digestion?

## 17. 1998 Q2 P1

State one effect of magnesium deficiency in green plants

## 18. 1998 Q14 P1

In an experiment to investigate a factor affecting photosynthesis, a leaf of a potted plant which had been kept in the dark overnight was covered with aluminium foil as shown in the diagram below



The set up was kept in sunlight for three hours after which a food test was carried out on the leaf.

- (a) Which factor was being investigated in the experiment?
- (b) What food test was carried out?
- (c) (i) State the results of the food test

**24. 2002 Q10 P1**

What happens to excess fatty acids and glycerol in the body?

**25. 2003 Q8 P1**

State a function of the large intestine in humans

**26. 2004 Q9 P1**

Name two mineral elements that are necessary in the synthesis of chlorophyll.

**27. 2006 Q8 P1**

State the role of vitamin C in humans. (2 marks)

**28. 2006 Q11 P1**

State the role of insulin in human body. (1 mark)

**29. 2006 Q17 P1**

a) Distinguish between the terms homodont and heterodont. (1 mark)

b) What is the function of carnassials teeth? (1 mark)

c) A certain animal has no incisors, no canines, 6 premolars and 6 molars in its upper jaw. In the lower jaw there are 6 incisors, 2 canines, 6 Premolars and six molars. Write its dental formula.

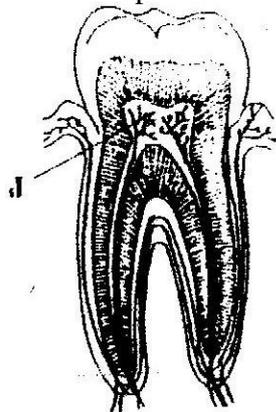
**30. 2006 Q18 P1**

a) State two functions of bile juice in the digestion of food. (2 marks)

**31. 2006 Q27 P1**

Name the end products of the light stage in photosynthesis.

The diagram below represents a section through a human tooth



(a) (i) Name the type of tooth shown (1 mark)

(ii) Give a reason for your answer in (a) (i) above (1 mark)

(b) State the functions of the structures found in part labelled J (2 marks)

**34. 2007 Q8 P1**

(a) Name a fat soluble vitamin manufactured by the human body (1 mark)

.....

(b) State two functions of potassium in the human body (2 marks)

**35. 2007 Q25 P1**

(a) The action of ptyalin stops at the stomach. Explain (1 mark)

(b) State a factor that denatures enzymes (1 mark)

(c) Name the features that increase the surface area of small intestines (2 marks)

**36. 2008 Q5 P1**

(a) State two factors that affect enzymatic activities (2 marks)

(b) Explain how one of the factors stated in (a) above affects enzymatic activities

**37. 2008 Q9 P1**

Give three factors that determine the amount of energy a human being require in a day (3 marks)

...

**38. 2008 Q10 P1**

(a) Name the antigens that determine human blood groups (2 marks)

(b) State the adaptation that enables the red blood cells to move in blood capillaries

**42. 2008 Q23 P1**

The diagram below shows a human tooth (2 marks)



(a) Identify the tooth (1 mark)

.....

(b) How is the tooth adapted to its function (1 mark)

.....

(c) State the role of the following vitamins in the human body (1 mark)

(i) C (1 mark)

.....

(ii) K (1 mark)

**43. 2008 Q24 P1**

Name the sites where light and dark reactions of photosynthesis take place (2 marks)

Light reaction.....

Dark reaction.....

**44. 2009 Q18 P1**

Explain how the following factors affect the rate of photosynthesis:

(a) Concentration of carbon (iv) oxide (1 mark)

(b) Light intensity (1 mark)

45. 2009 Q22 P1

Explain how the carnassials teeth of a dog are adapted to their function (2 marks)

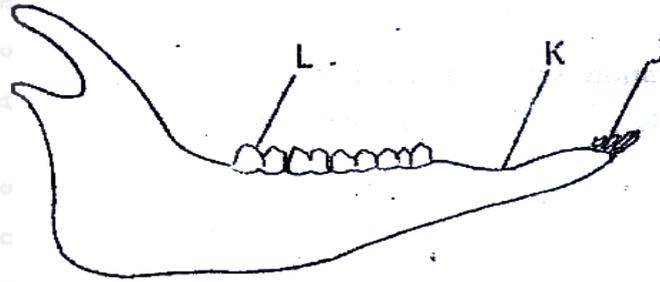
46. 2009 Q23 P1

State the function of iron in the human body (1 mark)

4007. 2009 Q24 P1

2009 Q2 P2

The diagram below represents the lower jaw of a mammal



51. 2011 Q2 P1

a) Write the dental formula of an adult human. (1 mark)

b) Name two dental diseases. (2 marks)

52. 2011 Q13 P1

State two functions of carbohydrates in the human body (2 marks)

53. 2011 Q18 P1

a) Name one salivary gland in humans. (2 marks)

b) State two functions of saliva. (2 marks)